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BULLETIN  
OF THE  
UNIVERSITY OF TEXAS  
FOUR TIMES A MONTH  
Number 272

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Official Series No. 86

March 22, 1913

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ANNOUNCEMENT  
OF THE  
DEPARTMENT OF MEDICINE  
GALVESTON

~~1912-1913~~



PUBLISHED BY THE UNIVERSITY OF TEXAS  
AUSTIN, TEXAS

*Entered as second-class mail matter at the postoffice at Austin*



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The benefits of education and of useful knowledge, generally diffused through a community, are essential to the preservation of a free government.

Sam Houston.

Cultivated mind is the guardian genius of democracy. . . . It is the only dictator that freemen acknowledge and the only security that freemen desire.

President Mirabeau B. Lamar.

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1913

1914

January.

July.

January.

July.

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
.....	.....	.....	1	2	3	4	.....	.....	1	2	3	4	5	.....	.....	1	2	3	4	5	.....	.....	1	2	3	4	5
5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11
12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18
19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25
26	27	28	29	30	31	.....	27	28	29	30	31	.....	25	26	27	28	29	30	31	26	27	28	29	30	31	.....	

February.

August.

February.

August.

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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2	3	4	5	6	7	8	3	4	5	6	7	8	9	8	9	10	11	12	13	14	2	3	4	5	6	7	8
9	10	11	12	13	14	15	10	11	12	13	14	15	16	15	16	17	18	19	20	21	9	10	11	12	13	14	15
16	17	18	19	20	21	22	17	18	19	20	21	22	23	22	23	24	25	26	27	28	22	23	24	25	26	27	28
23	24	25	26	27	28	29	24	25	26	27	28	29	30	31	.....	.....	.....	.....	.....	.....	30	31	.....	.....	.....	.....	.....

March.

September.

March.

September.

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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2	3	4	5	6	7	8	7	8	9	10	11	12	13	8	9	10	11	12	13	14	6	7	8	9	10	11	12
9	10	11	12	13	14	15	14	15	16	17	18	19	20	15	16	17	18	19	20	21	13	14	15	16	17	18	19
16	17	18	19	20	21	22	21	22	23	24	25	26	27	22	23	24	25	26	27	28	20	21	22	23	24	25	26
23	24	25	26	27	28	29	28	29	30	31	.....	.....	.....	29	30	31	.....	.....	.....	27	28	29	30	.....	.....	.....	

April.

October.

April.

October.

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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6	7	8	9	10	11	12	5	6	7	8	9	10	11	5	6	7	8	9	10	11	4	5	6	7	8	9	10
13	14	15	16	17	18	19	12	13	14	15	16	17	18	12	13	14	15	16	17	18	12	13	14	15	16	17	18
20	21	22	23	24	25	26	19	20	21	22	23	24	25	19	20	21	22	23	24	25	18	19	20	21	22	23	24
27	28	29	30	.....	.....	.....	26	27	28	29	30	31	.....	26	27	28	29	30	31	25	26	27	28	29	30	31	

May.

November.

May.

November.

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
.....	.....	.....	1	2	3	4	5	.....	.....	1	2	3	4	5	.....	.....	1	2	3	4	5	6	7	.....	.....	1	2	3
4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9	8	9	10	11	12	13	14	
11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16	15	16	17	18	19	20	21	
18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23	22	23	24	25	26	27	28	
25	26	27	28	29	30	31	23	24	25	26	27	28	29	30	24	25	26	27	28	29	30	29	30	31	.....	.....	.....	

June.

December.

June.

December.

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
1	2	3	4	5	6	7	.....	1	2	3	4	5	6	.....	1	2	3	4	5	6	.....	1	2	3	4	5	6	7
8	9	10	11	12	13	14	7	8	9	10	11	12	13	7	8	9	10	11	12	13	6	7	8	9	10	11	12	
15	16	17	18	19	20	21	14	15	16	17	18	19	20	14	15	16	17	18	19	20	13	14	15	16	17	18	19	
22	23	24	25	26	27	28	21	22	23	24	25	26	27	21	22	23	24	25	26	27	20	21	22	23	24	25	26	
29	30	.....	28	29	30	31	.....	28	29	30	31	.....	28	29	30	31	.....	27	28	29	30	31	.....	.....	.....	.....	.....	

## BOARD OF REGENTS.

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CLARENCE OUSLEY, Chairman.

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The Board of Regents meets in Austin on the fourth Tuesday of April and October and on the day preceding Commencement Day, and in Galveston in May on the day on which the graduating exercises of the Medical Department are held.

# DEPARTMENT OF MEDICINE

## FACULTIES

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### School of Medicine

EDWARD RANDALL, M. D., *Professor of Materia Medica and Therapeutics.*

WILLIAM KEILLER, L. R. C. P. and S. (ED.), F. R. C. S. (ED.),  
*Professor of Anatomy.*

JAMES EDWIN THOMPSON, M. B., B. S. (LOND.), F. R. C. S. (ENG.),  
*Professor of Surgery.*

SETH MABRY MORRIS, B. S., M. D., *Professor of Ophthalmology and Otology.*

WILLIAM SPENCER CARTER, M. D., *Professor of Physiology; Dean of the Faculty of the Medical Department.*

MARVIN LEE GRAVES, M. A., M. D., *Professor of Medicine.*

JAMES JOSHUA TERRILL, M. D., *Professor of Pathology.*

GEORGE HENDERSON LEE, M. D., *Professor of Obstetrics and Gynecology.*

GEORGE FAY GRACEY, B. S., M. D., *Professor of Chemistry and Toxicology.*

MARIE CHARLOTTE SCHAFER, M. D., *Associate Professor of Biology, Histology, and Embryology.*

DAVID HENRY LAWRENCE, PH. G., M. D., *Associate Professor of Medical Jurisprudence.*

HOWARD RUSH DUDGEON, M. D., *Adjunct Professor of Surgery, and Clinical Professor of Genito-urinary Diseases and Dermatology.*

JAMES PERSONS SIMONDS, B. A., M. D., *Professor of Preventive Medicine.*

WALTER T. GARBADE, B. S., PH. G., *Adjunct Professor of Chemistry.*

HARRY O. KNIGHT, B. A., M. D., *Adjunct Professor of Anatomy.*

ALLEN GEORGE HEARD, M. D., *Adjunct Professor of Pediatrics and Instructor in Medicine.*

EDWARD RANDALL, M. D., *Lecturer on Physical Diagnosis.*

RAOUL RENE DANIEL CLINE, B. S., M. A., PH. G., M. D., *Lecturer on Pharmacy.*

## THE UNIVERSITY OF TEXAS.

- MARVIN LEE GRAVES, M. A., M. D., *Lecturer or Nervous and Mental Diseases.*
- H. O. SAPPINGTON, M. D., *Lecturer on and Instructor in Obstetrics and Gynecology.*
- GEORGE CYRUS KINDLEY, B. S., M. D., *Instructor in Pathology and Bacteriology.*
- AUGUST J. STREIT, M. D., *Instructor in Physiology and Pharmacodynamics.*
- ALBERT OLIN SINGLETON, B. S., M. D., *Instructor in Surgery.*
- THAD SHAW, B. A., M. D., *Instructor in Clinical Medicine.*
- R. M. HARGROVE, M. D., *Assistant in Anatomy.*
- FRANCES MAY MCADAMS, B. S., *Student Assistant in Pathology.*
- ROY HASSELL CROCKETT, B. A., *Student Assistant in Histology.*
- ERNEST WINFRED BREIHAN, B. S., M. S., *Student Assistant in Bacteriology.*

**School of Pharmacy**

- EDWARD RANDALL, M. D., *Professor of Materia Medica and Therapeutics.*
- RAOUL RENE DANIEL CLINE, B. S., M. A., PH. G., M. D., *Professor of Pharmacy.*
- GEORGE FAY GRACEY, B. S., M. D., *Professor of Chemistry and Toxicology.*
- WALTER T. GARBADE, B. S., PH. G., *Adjunct Professor of Chemistry.*
- JOHN C. BUCKNER, PH. G., *Lecturer on Botany, and Instructor in Pharmacy.*

**School of Nursing**

- ETHEL D'ARCY CLAY, R. N., *Clinical Instructor in Nursing.*
- 

- THOMAS H. NOLAN, *Provost of the Medical Department and Secretary of the Faculty.*
- ETHEL LOUISA HIBBS, B. LIT., *Librarian.*
- MRS. HUGH L. DAVIS, *Superintendent of University Hall.*

**CALENDAR FOR THE TWENTY-THIRD ANNUAL SESSION  
1913-1914**

Examinations for the removal of conditions and for advanced standing or exemptions will be held September 27, 29, and 30, 1913.

Registration days, September 27, 29, and 30, and October 1, 1913.	
Opening exercises.....	Wednesday, October 1, 1913.
Thanksgiving day.....	Thursday, November 27, 1913.
Fall term examinations begin (see page 23)....	December 15, 1913.
Christmas Holidays, December 23, 1913-January 2, inclusive,	1914.
Mid-term examinations for junior and senior classes in medi-	
cine begin (see page 23).....	January 24, 1914.
Washington's birthday.....	February 22, 1914.
Texas Independence Day.....	March 2, 1914.
Winter term examinations begin.....	March 6, 1914.
San Jacinto Day.....	April 21, 1914.
Final examinations for graduating classes begin.....	May 9, 1914.
Final examinations for other classes begin.....	May 15, 1914.
Graduating exercises.....	May 30, 1914.

# SCHOOL OF MEDICINE

## ANNOUNCEMENT FOR THE TWENTY-THIRD ANNUAL SESSION

### Historical Sketch

The first annual session of the Medical Department of the University of Texas began on October 1, 1891, and closed on April 22, 1892.

The twenty-second annual session opened on Wednesday, October 1, 1912, and will close with appropriate exercises on Saturday, May 31, 1913.

The twenty-third annual session will begin on October 1, 1913, and will continue until May 30, 1914.

The sixth was the last session open to matriculates desiring to graduate under the requirement of three annual sessions for the completion of the course; four annual sessions of eight months each are required for graduation of all students matriculating for the existing course of instruction.\*

### Grounds and Buildings

The College Building occupies a block of ground situated on Avenue B, between Ninth and Tenth Streets; and upon the contiguous block, between Eighth and Ninth Streets, is situated the John Sealy Hospital, the property of the state, and a part of the Medical Department of the University. The College Building was erected in 1890 at the cost of \$86,000, exclusive of furnishings and equipment. It is a large and commodious building, modern in construction and imposing in architecture. It contains three large lecture theaters, anatomical, chemical, pharmaceutical, physiological, pathological, histological, and bacteriological laboratories; museums, library, and reading-room; faculty room, officers' rooms, and also rooms and laboratories occupied by the School of Pharmacy. The building is well lighted by side windows and skylights, is fitted throughout with gas and water, and is heated by steam.

For a description of the John Sealy Hospital, see page 49.

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\*The authorities reserve the right of addition to, subtraction from, or modification of the announcements of this catalogue as they shall deem for the best interests of the school and the students.

### **University Hall**

University Hall, erected in 1897, at a cost of about \$40,000, was given by Mr. George W. Brackenridge, of San Antonio, in order to encourage women to enter the professions, especially the profession of medicine. It provides the comforts of a home for women students in the Schools of Medicine and Pharmacy.

The Hall is a handsome brick building of three stories, the second and third of which are divided into about thirty rooms, including living rooms, bedrooms, bathrooms, parlors, etc. On the first floor are reception rooms, dining-room, kitchen, etc. The building is heated by steam and lighted by electricity. The rooms are well furnished, and are rented to women students for \$5.00 per month.

The Superintendent of University Hall, Mrs. Hugh L. Davis, lives in the building and looks well after the comfort of the women students who reside there.

The students residing in University Hall have organized a dining club on the co-operative plan; excellent board is obtained here for about \$13.00 a month.

## **FACILITIES FOR TEACHING**

### **Laboratories**

The various departments of the Medical School were well equipped when it was organized in 1891. The equipment has been added to every session as the attendance has increased, and at present each laboratory is fully provided with all the apparatus and supplies required for teaching and for original investigation.

The laboratories of chemistry and of pharmacy occupy the first floor. The chemical laboratory has 275 working desks completely equipped with all the apparatus and reagents necessary for individual work by the students in performing chemical experiments.

The laboratory of pharmacy is also fully equipped with apparatus and the facilities required for practical instruction, and has a large collection of drugs and pharmaceutical preparations. While this laboratory is used chiefly by the School of Pharmacy, it is also used for giving practical instruction to the medical students in *materia medica* and pharmacy in the freshman year.

On the second floor is the physiological laboratory, consisting of a large room for practical instruction and of other rooms for prep-

aration and research. This laboratory is thoroughly equipped with physiological apparatus for investigation and demonstration, and in addition has fifteen complete sets of apparatus for student exercises, made after the Harvard models, so that the students, working in sections of thirty or less, perform all but the most difficult experiments themselves. Demonstrations in pharmaco-dynamics are also given in this laboratory.

On the third floor, the laboratories of pathology and histology, each equipped with thirty microscopes and working tables, provide for individual work in the practical instruction in these subjects by each member of the class, which is divided into sections for this purpose.

The laboratory of bacteriology, also on the third floor, is provided with microscopes having oil-immersion lenses, and with all apparatus necessary for practical exercises in bacteriology. Sections of thirty students each can be accommodated in this laboratory.

The laboratory of anatomy occupies the entire fourth floor, and is well lighted by ceiling and side lights (see Museum of Anatomy, p. 14.) The supply of anatomical material is adequate, and its preservation is ideal for purposes of dissection.

The laboratory of clinical medicine is on the first floor of the Nurses' Home, adjacent to the hospital. It is thoroughly equipped with apparatus and microscopes having oil-immersion lenses, for individual work in the study of clinical pathology and of the cases in the medical wards by members of the junior and senior classes.

In the basement of the College Building there is a machine shop in charge of a skilled mechanic. The shop is fitted up for all kinds of metal and woodwork. Much of the apparatus in use in the different laboratories is either made or repaired here.

When the College Building was repaired after the storm of 1900, many alterations and improvements were made, especially in the library and in the laboratories of anatomy, bacteriology, physiology, and pharmacy.

It is the policy of this school to attach little value to purely didactic teaching. Lectures, recitations, and demonstrations are regarded as necessary to enable the students to get the greatest benefit from the laboratory instruction, but the practical work in the laboratories and clinics is considered the most important part of the teaching. The students do not merely see others demonstrate

how to do things. Each subject is taught in a practical manner, and whenever it is practicable the students themselves perform experiments, prepare and study specimens, examine patients, etc. The students are graded upon their attendance and practical work in the laboratories, clinics, ward classes, etc., and this record constitutes a part of the term grade in each subject.

The individual instruction and the positive knowledge acquired by the student's own personal observations are regarded as being of the utmost importance in giving the scientific training necessary for the work of the medical profession.

### Library and Reading-room

ETHEL LOUISA HIBBS, B. LIT., *Librarian.*

The library occupies the east end of the first floor of the College Building. The large room at the end of the hall is the reading room; the two adjoining rooms contain cases and stacks for journals; and the fourth is used for sorting and storing duplicate journals and incomplete files of the same. The reading-room is well lighted, is supplied with chairs and tables, and students may read or study here from 8 a. m. to 12 m. and from 2 to 5 p. m. The most important modern medical text-books, books of general reference, such as encyclopedias, indexes, etc., and the best American and foreign medical journals are kept in cases in the reading-room, and the students have easy access to them.

The library includes 8050 volumes and 1400 pamphlets, some of which have been given by generous physicians. Most of the library has been acquired by purchase. After the storm of 1900 over \$4000 was expended by the regents in restoring the library. Since that time an annual appropriation of \$1000 has been used in adding the more important texts and monographs and in completing many of the files of journals used for reference in making original investigations.

The books are classified according to the Dewey system, and are catalogued by author, subject, and title, so that they can readily be used for consultation in the reading-room or for withdrawal from the library.

The library is in charge of the librarian, who devotes her entire time to it.

Regular physicians, other than those of the teaching staff, may

consult books and journals in the library, but the privilege of withdrawing them from the library is limited to those connected with the Department of Medicine.

### Museums

Instead of one general museum, there are special collections of typical specimens in connection with the different laboratories, which make possible their use for teaching purposes.

#### Museum of Anatomy

The museum of anatomy is no mere collection of rare specimens, but is an integral part of the teaching equipment, being composed of specimens which have been prepared for their teaching value. The specimens are displayed and labeled with full descriptions on cards or in hand-books, so that the student can acquaint himself with their anatomy. The bones are painted, labeled, described, and fixed to tables conveniently arranged for study; ossification is illustrated by mounted specimens; sections and dissections of the eye, ear, brain, limbs, trunk, pelvis, head, etc., are displayed with full description; wax models of embryology and special dissections and models for illustrating applied surgical anatomy are also used.

The Department of Anatomy is constantly increasing the size and usefulness of this portion of the teaching equipment.

#### Museum of Pathology

The museum of pathology affords, as aids in teaching, a great variety of pathological specimens, especially those showing the gross lesions and their practical application to medicine and surgery. The collection consists of more than twelve hundred specimens, which have been brought together during a number of years, and is constantly being enlarged. Each specimen is labeled with the serial number of the museum, the diagnosis, and the name of the donor. The history of each case, together with a description of the gross and microscopic findings, is recorded in a catalogue kept for that purpose. The more important specimens are of great value and easy of access for teaching purposes. Students and physicians have access to the shelves at all times and the specimens are continually used in class-room demonstrations.

It is earnestly recommended that physicians throughout the state

interest themselves in this museum. Any material illustrating interesting pathological conditions of organs or tumors, early fetuses, monsters, etc., may be put in a five per cent solution of formalin or strong alcohol and forwarded at the expense of the laboratory. Full credit will be given to the donor, and, if desired, a report of the microscopic findings will be promptly returned to him.

### **Hospital Facilities**

During the past year there have been treated in the wards of the John Sealy Hospital 2281 patients, exclusive of a large number of outdoor patients, who also furnished clinical material for the instruction of the class. The resources of illustration of medical ailments, surgical affections and accidents, and their management are ample. Daily clinics are given throughout the entire session by members of the faculty and by special lecturers. Much attention is devoted to bedside instruction, in which the students are required to accompany the teachers through the wards and practically acquire the methods of diagnosis and treatment. For a full statement of the work done in the John Sealy Hospital, see pp. 52-67.

During the past year there were 7136 new cases and 10,303 old cases treated in the outdoor clinics or dispensaries. These outdoor clinics have been organized so that each senior student receives the benefit of a period of this clinical work, in its several departments—medicine, surgery, obstetrics, and gynecology, and special diseases.

St. Mary's Infirmary, an excellent hospital under the care of the Sisters of the Incarnate Word, is situated at Market and Eighth Streets, only two blocks from the College.

### **ADMISSION**

Men and women are admitted to the School of Medicine on equal conditions, as follows:

#### **1. Age and Character**

Candidates must be at least seventeen years of age, and each candidate less than twenty-one years of age must present a written statement from a parent or guardian showing permission to matriculate.

Applicants must furnish evidence of good moral character and fitness for the profession of medicine. Testimonials signed by at

least two reputable and responsible persons, preferably physicians, are required. Students coming from other colleges must present letters of honorable dismissal.

## 2. Vaccination

Candidates must present evidence of proper vaccination at a date sufficiently recent to insure protection against smallpox, or be vaccinated upon matriculation.

## 3. Legal Requirements

Under the Medical Practice Act of 1907, the regulations of the Texas State Board of Medical Examiners require that applicants for the license to practice medicine in Texas, in order that they may be eligible to the examination for such license, shall have obtained from the board, at the time of admission to a medical college, a certificate of satisfactory preliminary education.

As the University of Texas requires credit for five college courses, in addition to a high-school course or its equivalent, as the minimum entrance requirement, and the State Board of Medical Examiners issues its certificate upon credit for fourteen high-school units, those who can satisfy the admission requirements of the University have no difficulty in securing the certificate of the State Board of Examiners. The certificate of the State Board of Medical Examiners should be obtained from the secretary of the board before admission. The requirements of the State Board of Medical Examiners must be satisfied independently of those of the University.

## 4. Scholarship

Applicants for admission to the School of Medicine of the University of Texas will be required to present credit for five full courses in the College of Arts of this University, or their equivalent in some other institution of good standing, in addition to fourteen entrance units of which the following are prescribed: English, 3 units; History, 2 units; Algebra,  $1\frac{1}{2}$  units; Geometry, 1 unit. The remaining entrance units, to make a total of fourteen, may be selected from the list below.

**Subjects and Units that May be Presented for Admission**

English, 3 or 4.	Natural Sciences:
History and Civics:	Physiography, $\frac{1}{2}$ .
Ancient History, 1.	Physiology, $\frac{1}{2}$ .
Medieval and Modern History, 1.	Physics, 1.
American History, 1.	Chemistry, 1.
English History, 1.	Botany, 1.
Civics, $\frac{1}{2}$ .	Zoology, 1.
Mathematics:	Vocational Subjects:
Algebra, $1\frac{1}{2}$ .	Agriculture, $\frac{1}{2}$ or 1.
Plane Geometry, 1.	Bookkeeping, $\frac{1}{2}$ .
Solid Geometry, $\frac{1}{2}$ .	Domestic Economy, 1 or 2.
Trigonometry, $\frac{1}{2}$ .	Drawing, $\frac{1}{2}$ or 1.
Foreign Languages:	Manual Training, $\frac{1}{2}$ or 1.
Latin, 3 or 4.	Stenography and Typewriting, 1.
Greek, 2 or 3.	
German, 2 or 3.	
French, 2 or 3.	
Spanish, 2 or 3.	

A unit represents a high-school study pursued for a full session with five class periods a week of not less than forty minutes each.

Students who expect to study medicine should take Latin in the high-school course. Beginning with the session of 1914-1915 at least two units in Latin, German, or French will be required among the fourteen entrance units, in addition to the prescribed subjects named above. The foreign language requirement may also be absolved by including one college course in German or French among the five college courses.

While the minimum admission requirement at the present time does not prescribe the subjects that shall be included in the five college courses, those who intend to study medicine are strongly advised to include biology, physics, chemistry, English, and a foreign language in the academic course preliminary to the study of medicine. These five college courses represent the usual amount of work done in one session in a college of good rank. Beginning in 1915, biology, physics, and chemistry will be required among the five college courses. In special cases the requirement for physics and chemistry will not be insisted upon at the time of entrance, but applicants failing to present credit for either of these subjects will be required to take

it with the students of the School of Pharmacy. Subjects thus taken are not counted among the five college courses.

Beginning with the session of 1913-1914, those students who do not present physics for admission to the School of Medicine will be required to take the course in physics with the students of the School of Pharmacy.

Those who have received degrees in arts or science from approved colleges and universities will be admitted on presenting their diplomas or satisfactory certificates of graduation properly signed.

Other candidates for admission must present full statements from the colleges previously attended, signed by the proper authority, certifying to the following points:

(1) Honorable dismissal; (2) the number of admission credits allowed, and the mode of admission, *i. e.*, whether by examination or by acceptable credentials from approved schools; (3) the college courses completed, giving the number of hours a week and the number of weeks devoted to each subject. A catalogue of the college previously attended must also be presented. All applications for admission to the School of Medicine are passed upon by the committee of the general faculty of the Main University on the admission of students from other colleges.

Any one who expects to enter the School of Medicine is urged to send such certificate and catalogue as early in the summer as possible, and certainly before the registration days (September 27 to October 1) in order that the value of the admission credits may be properly determined before the time for matriculation.

Much time and trouble may be saved if applicants for admission will obtain these statements in duplicate. One of these is required by the State Board of Medical Examiners in issuing the entrance certificate, as explained above, and the other is necessary for admission to the University.

### Work Preparatory to Medicine

While one year's college work of five courses is now the requirement for admission to the School of Medicine, it is much better to take more college work than the minimum requirement. For students so situated as to make this possible, one of the groups offered by the College of Arts in the Main University at Austin is suggested. In any of these groups if German or French or German

and French be used to absolve part of the admission requirements to the College of Arts, advanced work in either or both of these subjects may be taken, or additional electives chosen in lieu thereof. Students are advised to present Latin and one other foreign language for admission rather than other subjects.

**Group I. Leading to the Degree of Bachelor of Arts**

Credit is given in the School of Medicine for the work done in physics, chemistry, general zoology, histology, and embryology. On the completion of this group the degree of Bachelor of Arts will be conferred.

*Freshman Year:*

English 1 .....	1
German A .....	1
Mathematics 1 or 2 or 4 .....	1
Physics 1 .....	1
Zoology 1 .....	1

Physical Training.

*Sophomore Year:*

English 2 or 3 .....	1
German 1 .....	1
French A .....	1
Chemistry 1 .....	1
Zoology 127f, 105w, 106s .....	1

*Junior Year:*

French 1 .....	1
Chemistry 2 .....	1
Zoology 4 .....	1
Economics 1 (or Government 1), or Philosophy 101f, 102w, 103s .....	1
Elective .....	1 $\frac{1}{3}$

*Senior Year:*

Chemistry 411 .....	1 $\frac{1}{3}$
Zoology 410 .....	1 $\frac{1}{3}$
Philosophy 101f, 102w, 103s, or Economics 1 (or Government 1) .....	1
Elective .....	1

The numbers used in these groups refer to courses in the College of Arts of the Main University at Austin. Full information concerning them may be obtained from the general catalogue of the University of Texas.

### Group II. Leading to the Degree of Bachelor of Arts

This group is arranged particularly for those who intend to go to the Medical Department at Galveston, and who can not well afford to give four years to a preparatory training. A student who completes this group and the first two years in the School of Medicine at Galveston will receive the degree of B. A., to be conferred, according to his preference, either at Austin or Galveston. Thus the two degrees may be taken in seven years.

Credit will be given in the School of Medicine for the work done in physics, chemistry, general zoology, histology, and embryology.

#### *Freshman Year:*

English 1	1
German A	1
Mathematics 1 or 2 or 4	1
Physics 1	1
Zoology 1	1
Physical Training.	

#### *Sophomore Year:*

English 2 or 3	1
German 1	1
French A	1
Chemistry 1	1
Zoology 127f, 105w, 106s	1

#### *Junior Year:*

Chemistry 2	1
Zoology 4	1
Economics 1 or Government 1	1
Philosophy 101f, 102w, 103s	1
Elective	1 $\frac{1}{3}$

Electives may be substituted for Chemistry 1 or Chemistry 2, or both, in which case an equivalent amount of Chemistry will be taken in the School of Medicine.

The student must make an average grade of at least C in his last ten courses, and must show such ability to write clear and correct English as to satisfy the Committee on Students' Use of English.

**Group III. Leading to the Degree of Bachelor of Science in Medicine**

This group is designed for those who can stay only two years in the College of Arts. A student who completes this group and the first two years in the School of Medicine at Galveston will receive the degree of Bachelor of Science in Medicine, to be conferred, according to his preference, either at Austin or Galveston. Thus the two degrees may be taken in six years.

*Freshman Year:*

English 1 .....	1
Mathematics 1 or 2 or 4.....	1
A foreign language.....	1
Physics 1 .....	1
Zoology 1 .....	1
Elective .....	$\frac{1}{3}$
Physical Training.	

*Sophomore Year:*

English 2 or 3.....	1
The foreign language begun in the Freshman year.....	1
Economics 1 or Government 1.....	1
Chemistry 1 .....	1
*Philosophy 101f, Zoology 105w, and Zoology 106s, or Zoology 4 .....	1
	—
	10 $\frac{1}{3}$

The student must make an average grade of at least C in his sophomore year.

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\*Philosophy is open to a sophomore only if he completed the freshman year with credit.

### Exemptions

Graduates and students of the College of Arts of the University of Texas, who have completed satisfactorily the courses in physics, chemistry, general zoology, cytology (histology), and embryology, receive credit for these subjects in the Medical Department.

Graduates and students of other colleges, who present satisfactory evidence that they have had instruction in any branches taught in the medical curriculum, equivalent in character and extent to that given in this school, may receive exemptions in such subjects by passing examinations with a grade of 75 per cent or more. In applying for exemption in any subject, it is necessary for the applicant to present from his former instructor a letter stating the time spent and ground covered, and also to furnish a catalogue of the college or university from which he comes.

All examinations for exemptions must be taken September 27, 29, and 30, 1913, before the opening of the session.

### Advanced Standing

Students of other medical colleges may be admitted to advanced standing by satisfying the following requirements:

(a) Documentary evidence must be furnished to show that the applicant has had a preliminary education equivalent to that required of the members of the class to which admission is desired.

(b) The applicant must furnish satisfactory evidence of having had didactic and practical laboratory or clinical instruction in the subjects that have been covered by the class which he wishes to enter, equal in character and extent to that given in this school.

(c) Satisfactory examinations, with a grade of 60 per cent or more, must be passed in all such subjects.

(d) A statement of honorable dismissal must be furnished from the medical college last attended.

Examinations for advanced standing will be held September 27, 29, and 30, 1913.

A graduate of a regular medical school seeking a diploma from this institution will be admitted to the graduating class on passing examinations, with a grade of 60 per cent or more, in all subjects taught in the first three sessions of the course in this school. (For the arrangement of the curriculum see pp. 24-26).

A graduate of a regular medical school, not wishing a degree,

will be admitted to an elective course in any of the branches of the curriculum upon satisfying the financial requirements.

### EXAMINATIONS AND CLASS STANDING

Two intermediate examinations are held during the session for the freshman and sophomore classes in the School of Medicine, and for both classes in the School of Pharmacy, one during the week preceding the Christmas holidays, and the other during the second week in March. For the junior and senior classes in the School of Medicine, a single mid-term examination is held during the first week in February, and the grade attained in this examination is taken as the term grade in each subject. A final examination is also held in each subject upon the matter taught during the entire course. The average of the two intermediate examinations is known as the "term grade"; the grade attained in the final examination at the completion of each course is known as the "final grade"; the average of these two is the "general average."

Absence from more than ten per cent of the practical work in any laboratory or clinical course of instruction, without satisfactory excuse to the professor in charge or to the dean, makes a student ineligible to the examinations in that subject.

If a student fails to take the intermediate and final examinations at the regular scheduled time, without having been excused by the dean or by the professor in charge, he will be required to repeat the course in that subject.

A student's name may be dropped from the roll at any time during the session, when, in the opinion of the faculty, he is not doing the work of the course in a satisfactory manner.

Each student, to pass satisfactorily, is required to make 60 per cent or more in the term and final grades, or, if the term grade be less than 60 per cent, to make 75 per cent in the final examination.

A student whose grades are unsatisfactory may be conditioned in not more than three major subjects. Examinations for the removal of conditions will be held during the last week in September preceding the next session, and a grade of 75 per cent or more is required in such examinations. If a student fails to pass a satisfactory examination for the removal of a condition, he will be required to take the subject over, and will not be permitted to take advanced standing in any subject in conflict therewith on the roster.

Students will not be allowed to carry more than the equivalent of two major subjects as conditional subjects, and in the senior year in medicine conditions will not be allowed in more than one major and one minor subject.

A student is not permitted to carry a deficiency beyond the year succeeding that in which the deficiency occurs. Students with such unsatisfied branches will be matriculated in the class in which the deficiencies occur.

A student conditioned in more than three major branches will not be permitted to take examinations to remove such conditions, but will be required to repeat the year's course in its entirety.

*Students who matriculate after the registration days (September 27, 29, 30, and October 1) will be required to pay a fine of \$3.00.*

*No regular student will be matriculated after October 15 of any year, except by unanimous consent of the faculty.*

*No examinations for the removal of deficiencies will be given after October 1 of any year. No student will be permitted to do class work until matriculated.*

### REQUIREMENTS FOR GRADUATION

Candidates for graduation must be at least twenty-one years of age, and must present evidence of good moral character; they must pass satisfactory examinations in all subjects taught in the senior year; and, after receiving notice of having successfully passed the final examinations of the last session, they must enter their names on the register of candidates for the degree of Doctor of Medicine.

Candidates for graduation must be present and take part in the graduating exercises, unless excused by the dean.

### PLAN OF INSTRUCTION

The work of the school is conducted according to the following curriculum:

#### First Year

Systematic lectures as follows:

*Major Subjects:* (1) Anatomy (bones, joints, arm, leg, and thorax); (2) inorganic chemistry, including qualitative analysis; (3) materia medica; (4) normal histology; (5) chemical physiology (foodstuffs, foods, digestion, and the blood).

*Minor Subjects:* (1) General biology, including those insects which convey disease; (2) embryology; (3) pharmacy.

Practical laboratory work in (1) anatomy; (2) histology; (3) biology; (4) chemistry; (5) chemical physiology; (6) *materia medica* and pharmacy; and (7) embryology.

### Second Year

Systematic instruction as follows:

*Major Subjects:* (1) Anatomy, covering such parts of the subject as are not given in the first year; (2) physiology, covering those parts of this branch which are not given in the first year; (3) medical chemistry; (4) general pathology; (5) pharmacology.

*Minor Subjects:* (1) Physical diagnosis; (2) bacteriology; (3) minor surgery.

Practical laboratory work in (1) anatomy; (2) physiology; (3) chemistry; (4) pathological histology; (5) pharmaeo-dynamics; (6) bacteriology; (7) physical diagnosis.

### Third Year

Systematic lectures in the following:

*Major Subjects:* (1) Practice of medicine (see pp. 37-39); (2) practice of surgery (see pp. 39-41); (3) normal obstetrics, including the mechanism and management of labor; (4) therapeutics; (5) special pathology (see pp. 34-35); (6) surgical anatomy.

*Minor Subjects:* (1) Hygiene; (2) nervous diseases; (3) venereal diseases; (4) clinical pathology; (5) dietetics; (6) dermatology; (7) diseases of the eye; (8) diseases of the ear, nose, and throat.

Practical work in (1) pathology; (2) clinical medicine; (3) clinical pathology; (4) clinical surgery; (5) surgical pathology; (6) surgical and medical applied anatomy.

Clinical lectures in general surgery, medicine, obstetrics, and gynecology, nervous and mental diseases, and dermatology.

### Fourth Year

Systematic lectures as follows:

*Major Subjects:* (1) Practice of medicine (see pp. 37-39); (2) practice of surgery (see pp. 39-41); (3) gynecology; (4) obstetrics; (5) special pathology; (6) pediatrics.

*Minor Subjects:* (1) Nervous and mental diseases; (2) dermatology; (3) diseases of the eye; (4) diseases of the ear, nose, and throat; (5) medical jurisprudence.

Practical work in (1) operative surgery; (2) gross morbid anatomy and autopsy-making; (3) ward classes, outdoor clinics, and clinical laboratory in medicine; (4) ward classes and outdoor clinics in surgery; (5) dispensary in gynecology; (6) cases of labor.

Clinical lectures in medicine, surgery, gynecology, dermatology, pediatrics, nervous and mental diseases, diseases of the eye, diseases of the ear, nose, and throat.

## DEPARTMENTS OF INSTRUCTION

### ANATOMY

WILLIAM KEILLER, F. R. C. S. (ED.), *Professor of Anatomy.*  
HARRY O. KNIGHT, B. A., M. D., *Adjunct Professor of Anatomy.*  
R. M. HARGROVE, M. D., *Assistant in Anatomy.*

#### 1. Freshman Course.

Ten hours weekly throughout the session.

(a) *Osteology.* Ten hours weekly for six weeks in two periods, two weeks in October and four weeks in January. This course is given in laboratory demonstrations and by quizzes. An excellent museum of osteology consisting of painted and labeled specimens, each carefully described in a special hand-book, affords great assistance to the student.

(b) *Arm, Leg, and Thorax.* Ten hours weekly for twenty-two weeks. The class is divided into sections, and demonstration of each region on the cadaver precedes the dissection. The regional method of dissection is followed, Cunningham's *Manual of Practical Anatomy* forming the student's guide.

#### 2. Sophomore Course.

Ten hours weekly throughout the session.

(a) *Eye and Ear.* Ten hours weekly for two weeks. These organs are carefully demonstrated by means of specimens, dissections, and models, and afterward are dissected by the students. A complete series of dissections of the eye and ear, each described on a special card, makes these difficult subjects very clear, and

gives great assistance in acquiring a practical knowledge of their anatomy.

(b) *Brain.* Ten hours weekly for four weeks. The formalin method of preserving the cadaver has revolutionized the study of the brain. The students are furnished with brains in excellent preservation, and each dissection is preceded by a demonstration on a brain before the class in sections.

(c) *Head, Neck, and Abdomen.* Ten hours weekly for twenty-two weeks. These parts are dissected by the class in sections, a demonstration of each region on the cadaver preceding the dissection.

### 3. *Junior Course.*

Three hours weekly throughout the session.

Applied anatomy is taught as a laboratory course, the student dissecting with a special guide-book furnished by the department and designed to present the subject from the standpoint of the clinician and operator. When time permits, fetal anatomy and surgical and medical embryology receive attention.

It has been found that much benefit may be derived from the review of a subject by stereopticon lectures after the class has studied it by dissection. In this way the eye, ear, brain, and cranial nerves are rapidly reviewed. This course of lectures will be steadily extended.

The anatomical museum is every year becoming a more important feature in the teaching equipment of this department. It contains a large and ever increasing number of wet and dry specimens and wax models. The specimens are not hidden away on the shelves where they are comparatively useless, but each is displayed in such a manner as to be convenient for study, is carefully labeled, and is described in a handbook which the student is expected to consult. Many loose specimens also are constantly available for the purpose of study.

A reference library containing the more important of the recent text-books and atlases of anatomy is open to students in the anatomical laboratory.

Dissecting material is abundant and thoroughly preserved, so that dissecting can be carried on with comfort in the warmest weather. The dissecting room is large, airy, well lighted from

the roof and sides, always in perfect order, and free from offensive odors.

## PHYSIOLOGY

WILLIAM SPENCER CARTER, M. D., *Professor of Physiology.*

AUGUST J. STREIT, M. D., *Instructor in Physiology and Pharmacodynamics.*

**1. Freshman Course.—Chemical Physiology.**

Two lectures and five laboratory hours a week for one-half of the session.

This course is given during the second half of the first year. It includes general physiology, the chemistry of the organic food-stuffs, foods, digestion, and the blood. The laboratory exercises are closely correlated with the lectures, and are so arranged that each student performs all the experiments in examining the chemical properties of the different food-stuffs, the separation of the same, the changes which take place in them during digestion, the characteristics of each of the digestive juices, the action of the different digestive enzymes, and the conditions which influence the different phases of digestion. The different stages of digestion are studied in artificial digests prepared for the students by the demonstrator, and each individual student also makes such preparations himself.

**2. Sophomore Course. Animal Physiology.**

Three lectures and four laboratory hours each week throughout the entire session.

This course includes a thorough consideration of the lymph, absorption, circulation, respiration, metabolism, nutrition, animal heat, secretions, excretions, nerve, muscle, the central nervous system, and the special senses.

The laboratory is well provided with all the apparatus and facilities for practical work in experimental physiology. For laboratory exercises the class is divided into sections, each section working in two-hour periods twice a week. Two students are assigned to a table having a complete equipment of apparatus after the Harvard models. Most of the experiments are performed by the students themselves under the personal supervision of the professor and demonstrator, thus insuring individual

instruction. The more difficult and complicated experiments are shown by demonstration.

Each student is graded on the practical work in the laboratory, and is required to furnish notes, tabular statements, etc., on every exercise, and also to present tracings when the graphic method is used. The practical instruction by individual work in the laboratory not only enables the student to obtain a better understanding of physiology and to see its relation to other subjects, but it also trains him in experimental methods and better fits him for making individual observations in his medical studies.

The entire ground is covered as evenly as possible, without giving undue prominence to any one part; but those subjects which are especially important to the practical physician, such as the circulation, respiration, metabolism, nutrition, secretions, and excretions, receive most attention.

## CHEMISTRY

GEORGE FAY GRACEY, B. S., M. D., *Professor of Chemistry and Toxicology.*

WALTER T. GARBADE, B. S., PH. G., *Adjunct Professor of Chemistry.*

### 1. General Chemistry.

Freshman year. Two lectures and four laboratory hours a week throughout the session.

This is a course in theoretical and descriptive chemistry, both inorganic and organic. The character of the elements, the laws governing their union, their sources, and the methods of isolation and preparation are considered. Special attention is given to compounds found in the body, substances of importance in *materia medica*, toxicology, and to substances which serve as reagents in the detection and isolation of biochemical products.

In the laboratory each student applies in a practical way the principles of chemistry in making qualitative analyses. Special attention is given to the separation and detection of chemical compounds, both inorganic and organic, which are of importance in pharmacy, physiology, toxicology, and hygiene.

### 2. Applied Chemistry.

Sophomore year. Two lectures and four laboratory hours each week throughout the session.

This course comprises quantitative analysis as applied to clinical chemistry and hygiene. It includes the analysis of blood, gastric contents, urine, feces, and milk for diagnostic purposes; the analysis of drinking water and milk for hygienic purposes; of foods, vomitus, and urine for inorganic, organic, and alkaloidal poisons.

The chemical laboratory occupies the greater portion of the lower floor of the College Building, and contains 275 working tables, each table being supplied with a complete equipment of apparatus and reagents for individual work by each student. The Department of Chemistry is well equipped for the proper teaching of the subject, and the practical work is done by each student under the personal supervision of the professors in charge.

### **MATERIA MEDICA AND THERAPEUTICS**

EDWARD RANDALL, M. D., *Professor of Materia Medica and Therapeutics.*

RAOUL RENE DANIEL CLINE, PH. G., M. D., *Lecturer on Pharmacy in the School of Medicine.*

AUGUST J. STREIT, M. D., *Instructor in Pharmacodynamics.*

**1. *Materia Medica.***

Freshman year. Two lectures or recitations a week for nineteen weeks.

The instruction consists of lectures, recitations, and prescription writing. During one-half of the term, sections of the class are instructed in the laboratory of pharmacy. The time is devoted to practical work, with particular reference to the study and recognition of crude drugs, their chemical incompatibilities, and the manufacture of the commoner preparations.

**2. *Practical Pharmacy.***

Freshman year. Four laboratory hours a week for one-half of the session.

This course is conducted in the laboratory of pharmacy by Professor Cline. It includes a discussion of prescription writing, with special reference to pharmaceutical and therapeutical incompatibilities, and the character and modes of preparation of

remedies as far as these bear upon their use in therapeutics. For a full description of this course, see Special Lectures on Pharmacy, p. 44.

### 3. *Pharmacology.*

Sophomore year. Two lectures or recitations weekly throughout the session; six laboratory hours a week for eight weeks.

This course is devoted to the study of the physiological action of drugs. The individual remedies are considered separately, and their effects upon the normal animal organism are examined in detail. During the last third of the term démonstrations in experimental pharmaco-dynamics are given in the laboratory by Dr. Streit, Instructor in Pharmacodynamics. The effects of the most important of the different groups of drugs are shown by administering them to animals, which are always kept under the influence of anesthetics during the experiments. In this way the students become thoroughly acquainted with the effect produced by drugs when given in therapeutic and in poisonous doses.

### 4. *Therapeutics.*

Junior year. Two lectures a week throughout the session.

This course is devoted to the study of applied therapeutics. The general conditions under which each drug may be used in the treatment of disease are pointed out.

## BIOLOGY, NORMAL HISTOLOGY, AND GENERAL EMBRYOLOGY

MARIE CHARLOTTE SCHAEFER, M. D., *Associate Professor of Biology, Normal Histology, and General Embryology.*

ROY HASSELL CROCKETT, B. A., *Student Assistant in Histology.*

### 1. *Biology.*

Freshman year. - Two lectures and four laboratory hours weekly for ten weeks.

The grand divisions of the vegetable and animal kingdoms, which are of interest to physicians, are included in the systematic lecture course in biology. Those animal and vegetable organisms which are pathogenic or parasitic to man, or which act as primary and secondary hosts for human parasites, are considered at length.

The first part of the course includes the study of cells. The component parts of cells their various shapes, relative sizes, and reproduction are considered in detail. This course in cytology is followed by the study of the vegetable and animal organisms considered in the lecture course. The laboratory museum contains specimens for the macroscopic and microscopic study of most of the parasites considered. Cycles in the life history of parasites are illustrated with charts.

2. *Normal Histology.*

Freshman year. Two lectures or recitations and seven laboratory hours weekly throughout the session.

The lecture course includes the microscopic study of all the tissues and organs of the body.

In the laboratory, microscopic sections of the different tissues and organs are mounted and studied. To impress the minute anatomy firmly upon the mind, each student is required to make drawings of his specimens.

Practical instruction is also given in the technique of fixing, embedding, sectioning, and staining tissues for microscopic examination.

3. *Embryology.*

Freshman year. Two lectures and four laboratory hours weekly for eight weeks.

The systematic lectures include a brief description of the origin of the various tissues and the development of the different structures and organs of the body.

In the laboratory the various phases of development are studied from microscopic sections, charts and models. The mounted specimens consist mainly of embryos of the chick and the pig.

## PREVENTIVE MEDICINE

JAMES PERSONS SIMONDS, B. A., M. D., *Professor of Preventive Medicine.*

ERNEST WINFRED BREIHAN, M. S., *Student Assistant.*

1. *Bacteriology.*

Sophomore year. Two lectures or recitations and ten laboratory hours a week for ten weeks.

In the laboratory special stress is laid upon the development of correct bacteriologic technic. Practical examinations of air, milk, and water are made. The principles and methods of disinfection are studied. Methods of isolation and identification of bacterial species are learned. The biologic characters of about forty species of bacteria, chiefly pathogens, are studied in detail. So far as possible, the pathologic changes caused in the animal body by the more important pathogenic bacteria are demonstrated upon laboratory animals. Practical methods of examination of bacteriologic material from patients and from autopsies and the technic for the isolation of typhoid and dysentery bacilli from the stools of patients and carriers are learned. Practical instruction is given in the making of bacterins and the artificial immunization of animals. The reactions of immunity are studied, especially those having diagnostic value.

*2. Hygiene A.*

Junior year. Two lectures a week for one-half of the session.

The following subjects are considered: vital statistics, communicable diseases and their prevention; disinfection and disinfectants; quarantine; personal hygiene; sanitary control of foods, special emphasis being laid upon the control of public milk supplies; ventilating, lighting, and heating; medical inspection of school children; water and its purification; disposal of sewage and garbage; and public health organization.

*3. Hygiene B.*

Junior year. Two hours a week for one-half the session.

This is a continuation of Hygiene A. An attempt is made to combine the principles of a seminar with that of laboratory and field instruction on the various subjects covered in the lectures. Each student is assigned a topic upon which he makes a comprehensive report. The practical instruction in hygiene now included in the laboratory courses in bacteriology, chemistry, and physiology will be supplemented by further work by the student and by demonstrations in the laboratory of preventive medicine. The class will make visits to such places as are of sanitary interest in and near Galveston, such as the various city departments, the incinerator, the state and federal quarantine stations, the Houston sewage disposal plant, etc. Special lecturers will

be invited from time to time to address the class on selected topics.

## PATHOLOGY

JAMES JOSHUA TERRILL, M. D., *Professor of Pathology.*

GEORGE CYRUS KINDLEY, B. S., M. D., *Instructor in Pathology and Bacteriology.*

FRANCES MAY MCADAMS, B. S., *Student Assistant in Pathology.*

### 1. General Pathology.

Sophomore year. Two lectures and four laboratory hours weekly throughout the session.

The subjects covered include the causes of disease, the nomenclature of diseases, parasites, disorders of the circulation, disorders of metabolism (both general and local), inflammation, infectious granulomata and tumors. In the laboratory each student examines and makes drawings of about two hundred typical specimens. The mark for the student's drawing-book is a part of his final grade for the year.

### 2. Special Pathology. A.

Junior year: Two hours weekly throughout the session.

Didactic lectures and recitations upon the special lesions which affect the different organs and systems. The subjects are the special pathology of the circulatory, respiratory, digestive, and genito-urinary systems.

### 3. Special Pathology. B.

Junior year. Three laboratory hours weekly for half the session.

For this course the junior class is divided into two sections, and each section, for half a year, studies typical material illustrating the subjects covered in Courses 2 and 4. Microscopic sections of the tissues removed in the operative surgical clinics are given to the members of the class for study in connection with the course in surgical pathology. About eighty specimens are studied and drawn by each student, and emphasis is continually laid upon symptoms and diagnosis in relation to the microscopic appearance of the tissues.

**4. Special Pathology. C.**

Senior year. Two hours weekly throughout the session.

This is a continuation of Course 2, and consists of lectures and recitations, held twice weekly throughout the senior year. The subjects included are the lesions of the blood and blood-making organs, the muscles, bones and joints, skin, and nervous tissues.

**5. Gross Morbid Anatomy.**

Senior year. Two hours weekly throughout the session.

This course naturally falls into two parts. The first includes the methods and criteria of diagnosis from naked-eye inspection of diseased organs, and is illustrated by material derived from autopsies and museum specimens. This work occupies about half the year. The remainder is devoted to complete cases, all the organs being studied, both in the gross and microscopically, the different lesions correlated, and the clinical history reconstructed from the lesions. In this way all that the student has learned of normal and pathological anatomy and of symptoms is brought to a focus.

**6. Post-mortem Examinations.**

Methods of autopsy-making are demonstrated to the students of the junior and senior classes, and the seniors are required to take part in practicing them by turns. They are also taught how to draw up a correct protocol, with the gross and microscopic findings.

## OBSTETRICS AND GYNECOLOGY

GEORGE HENDERSON LEE, M. D., *Professor of Obstetrics and Gynecology.*

H. O. SAPPINGTON, M. D., *Lecturer and Instructor in Obstetrics and Gynecology.*

**1. Obstetrics.**

Junior year. Two quizzes or lectures and one demonstration weekly throughout the session.

This course is devoted to the study of normal obstetrics, including the anatomy of the pelvis and female organs of generation; the development of the ovum and fetus; the physiology of

pregnancy; the mechanism and management of labor; the puerperium and the care of the new-born; twin pregnancy; the surgery of obstetrics. The course is illustrated and made practical by the use of charts, specimens, and manikins.

2. *Obstetrics.*

Senior year. Two quizzes or lectures and one demonstration weekly throughout the session.

This course includes the study of the pathology of pregnancy; the pathology of labor; dystocia; the deformities of the pelvis; the pathology of the puerperium. Cases of labor are assigned to members of the senior class, under the supervision of the Instructor in Obstetrics, in the obstetrical wards of the John Sealy Hospital and in the obstetrical outdoor service of the same. Practical clinical instruction is thus given as opportunity offers.

3. *Gynecology.*

Senior year. One lecture and five clinic hours each week during the session.

This course covers in a general way the field of gynecology and includes clinical instruction in the diagnosis and treatment of the diseases peculiar to women. Two students are assigned to each case in the wards and are required to make examinations and a diagnosis; to assist in operation or treatment and to make reports covering the case up to the time of discharge. By this system opportunity is afforded for the students to receive individual instruction and to acquire practical knowledge of gynecological examinations.

4. *Outdoor Clinics.*

Senior year. One hour daily for nine weeks.

The class is divided into small sections for attendance upon the outdoor clinics, and each member attends the gynecological clinics during one-third of the session. Opportunity is afforded for examining patients, and practical instruction is given in the diagnosis and treatment of diseases of women.

## PRACTICE OF MEDICINE

MARVIN LEE GRAVES, M. A., M. D., *Professor of Medicine.*

ALLEN GEORGE HEARD, M. D., *Adjunct Professor of Pediatrics, and Instructor in Medicine.*

THAD SHAW, B. A., M. D., *Instructor in Clinical Medicine.*

The instruction in the practice of medicine extends throughout the third and fourth years, and is designed to equip the student with a thorough knowledge of the various diseases of internal medicine, including especially modern laboratory and clinical methods of diagnosis and the most practical and approved modes of treatment. Physical diagnosis is taught by practical instruction in the second year (see Special Lectures, p. 43).

### JUNIOR YEAR

#### 1. *Systematic Lectures.*

Two hours each week throughout the session.

This course covers half the field of internal medicine, and includes the constitutional diseases, affections of the gastrointestinal canal and its appendages, respiratory diseases, disorders of the renal system, cardiac and circulatory diseases, and diseases of the blood and of the ductless glands.

#### 2. *Ward Classes.*

Two hours a week for each student throughout the session.

The class is divided into small sections for bedside instruction so that each student receives personal instruction in the examination of patients.

#### 3. *Clinical Pathology.*

Six hours a week for ten weeks.

The laboratory of clinical medicine is well equipped with microscopes, apparatus, and chemical supplies, and an abundance of material is available from the wards and the out-patient department of the hospital. Demonstrations of the blood, sputum, urine, feces, gastric contents, exudations, transudates, etc., are made. Individual examinations by each student familiarize him with the technic and the significance of exhibits in normal and pathological conditions.

**4. Clinical Lectures.**

Two hours a week throughout the session are devoted to the exhibition and discussion before the class of the clinical features of diseases from the medical wards of the hospital.

## SENIOR YEAR

**5. Systematic Lectures.**

Two hours a week throughout the session.

This course is devoted to those subjects of internal medicine not covered in the junior year. It embraces infectious diseases, animal parasitic diseases, intoxications, etc.

**6. Clinical Lectures.**

Two hours a week throughout the session.

Clinical lectures are given twice a week upon the cases which occur in the wards of the John Sealy Hospital. The extensive shipping interests of Galveston furnish exceptional advantages for clinical instruction in a wide range of diseases, and especially those which occur in subtropical countries.

**7. Ward Cases.**

Three hours a week throughout the session.

The class is divided into suitable sections, and the time is devoted to case-taking, bedside study, and clinical instruction. Students are assigned cases and required to write the history, examine the patient, make a diagnosis, and suggest treatment.

**8. Laboratory of Clinical Medicine.**

The laboratory of clinical medicine is utilized for the members of the senior class in laboratory work upon the cases assigned to them in the medical wards and outdoor clinics.

The laboratory of clinical medicine is utilized for the examination, by the students, of the secretions, excretions, blood, etc., of these cases. Proper supervision is exercised to insure accuracy and to point out the clinical significance of the findings. In this way the student realizes the full value of the clinical material and acquires a practical knowledge of the treatment of disease.

**9. Outdoor Clinics.**

Six hours weekly for nine weeks.

Under the direction of the Instructor in Clinical Medicine, sections of the senior class attend the outdoor clinics one hour daily. The students elicit the history of cases, examine patients, and suggest treatment. Personal and direct contact with a variety of medical diseases is thus obtained, and valuable experience is secured.

**SURGERY**

JAMES EDWIN THOMPSON, B. S., M. B., (LOND.), F. R. C. S. (ENG.),  
*Professor of Surgery.*

HOWARD RUSH DUDGEON, M. D., *Adjunct Professor of Surgery;*  
*Clinical Professor of Genito-urinary Diseases.*

ALBERT OLIN SINGLETON, B. S., M. D., *Instructor in Surgery.*

**1. Bandaging and Minor Surgery.**

Sophomore year. One lecture weekly throughout the session.

This course is a very complete one, and aims at the thorough preparation of the student for the more advanced work of the third and fourth years. It consists of systematic lectures and clinical demonstrations in the hospital. The students are taught the essentials of asepsis and the preparation of dressings and ligatures. In addition, a short description of fractures, dislocations, and the uses of fixation apparatus is included in the course.

**2. Systematic Lectures.**

(a) Junior year. Two hours a week throughout the session.

These lectures cover the following ground: The surgical aspects of inflammation in all its varieties; wounds; local and constitutional infections; gangrene; surgical aspects of tuberculosis and syphilis; fractures; dislocations; diseases of joints; diseases of bone; injuries and diseases of muscles and tendons; injuries and diseases of bursae; injuries and diseases of the heart and blood-vessels; aneurisms; injuries and diseases of the lymphatic system; injuries and diseases of nerves.

(b) Senior year. Two hours a week throughout the session.

These lectures cover the following ground: Surgical pathology

and treatment of neoplasms; injuries and diseases of the head, brain, face, neck, spinal column, and spinal cord; diseases of the tongue and mouth, jaws, oesophagus, and pharynx; diseases of the stomach and intestines, rectum, and anus; diseases of the breast; diseases of the kidney, ureter, bladder, prostate, urethra, and penis; diseases of the testicles; epididymis, vasa deferentia, and vesiculae seminales; hydrocele, hematocoele; hernia in all situations; intestinal obstructions; diseases of the liver and gall bladder; diseases of the spleen; surgery of the chest and lungs.

*3. Lectures and Laboratory Instruction in Surgical Pathology.*

Junior year. Two hours a week during the entire session.

This course is given jointly by the Departments of Surgery and Pathology, in the laboratory of pathology, in order to correlate the clinical aspect of surgical diseases with the pathologic condition. The study of the gross appearance of diseased tissues and tumors removed in the surgical clinics, and the discussion of similar specimens from the museum, is in charge of the Department of Surgery; the microscopic study of such tissues is given by the Department of Pathology.

*4. Ward Classes.*

Junior year. Six hours a week during one-third of the session.

Here the student is instructed in bandaging and surgical dressings; in the methods of examining cases and taking surgical histories; and in following the course of cases after operation.

*5. Operative Clinics.*

(a) Junior year. Six hours weekly throughout the session.

(b) Senior year. Six hours weekly throughout the session.

These clinics are held in the John Sealy Hospital every Monday, Wednesday, and Friday, from 9 to 11 a. m. Fourth-year students are invited, in rotation, to assist the surgical staff, in order that they may acquire a practical knowledge of the methods in use.

*6. Operative Surgery on the Cadaver.*

Senior year. Two hours weekly during the entire session.

This course consists of lectures and demonstrations on the

cadaver. Each student, in turn, performs the operations previously described by the teacher. The course is very complete, and covers, as far as possible, the whole ground of operative surgery. When necessary the class is divided into sections, in order that each individual student may acquire as much experience as possible.

It is the aim of this course to treat operative surgery from a purely anatomical point of view, and the anatomy of each surgical region is thoroughly taught.

#### 7. *Out-patient Department.*

Senior year. Sections. Six hours weekly for nine weeks.

Surgical teaching under the care of the Instructor in Surgery is carried on every day except Sunday from 12 to 1 p. m. In this department the students come in close contact with the cases, and are allowed to conduct the treatment as far as advisable.

### OPHTHALMOLOGY AND OTOTOLOGY

SETH MABRY MORRIS, B. S., M. D., *Professor of Ophthalmology, Otology, Rhinology, and Laryngology.*

#### 1. *Ophthalmology.*

Senior year. One lecture and two clinics weekly throughout the session.

The lectures embrace the following topics: anatomy and physiology of the eye, external diseases, fundus lesions and their relationship to general diseases. The students are given practical instruction in the use of the ophthalmoscope, and are thus afforded every opportunity of acquiring a working knowledge of this instrument.

There are given in the clinics practical demonstrations of the methods of estimating refraction and testing muscular unbalance. Operations are performed before the class.

#### 2. *Otology, Rhinology, and Laryngology.*

Senior year. One lecture and two clinics weekly throughout the session.

The lectures are devoted to the special anatomy and the

physiology of the ear, nose, and throat; the methods of examining these parts; and the different diseases to which they are subject.

In the out-patient department, the students have opportunity of acquiring a thorough knowledge of the normal appearance of the parts, and are able to follow the course and treatment of diseased conditions. They receive personal instruction in handling the various instruments used for examination and treatment. Operations are performed before the class.

## DERMATOLOGY AND GENITO-URINARY DISEASES

HOWARD RUSH DUDGEON, M. D., *Clinical Professor of Dermatology and Genito-Urinary Diseases.*

### 1. *Genito-urinary Diseases.*

Junior year. One hour weekly throughout the session.

A systematic course on this subject is given by lectures during the junior year. Cases are also presented as they occur in the surgical clinics throughout the third and fourth years. The surgical outdoor clinic furnishes an abundance of cases for teaching this subject in a practical way to the members of the senior class.

### 2. *Dermatology.*

Senior year. One lecture each week during the entire session; six hours weekly for nine weeks in outdoor clinics.

The importance to the student of obtaining a thorough knowledge of skin diseases can hardly be overestimated. The frequency with which they are encountered in general practice, and the intimate relations they sustain to diseases of other organs, make the study both important and interesting. Special attention is given to the common diseases of the skin and to the pathology of the elementary skin lesions. When practicable the lectures are clinical, and when cases are not available, dermochromes are used to illustrate the different forms of disease.

**MEDICAL JURISPRUDENCE**

DAVID HENRY LAWRENCE, PH. G., M. D., *Associate Professor of Medical Jurisprudence.*

Senior year. Two lectures a week for nineteen weeks.

This course attempts to cover the subject of legal medicine as follows: The physician's liability for malpractice; relation of physician to patient; medico-legal inspection; violent death; rape; criminal abortion; infanticide; life insurance; malingering; death from the different poisons; *corpus delicti*; examination of blood stains; hypnotism; and insanity.

It is incumbent upon every physician to have some knowledge of the subject of legal medicine, as every physician, at some time during his professional career, is called upon to give testimony before the courts, and it behooves every young practitioner to appear in court when called upon. He should know, therefore, what the commonwealth expects and has a right to demand of him as a physician, and he should also know his own rights as a medical expert.

**SPECIAL LECTURES****PHYSICAL DIAGNOSIS**

EDWARD RANDALL, M. D., *Lecturer on Physical Diagnosis.*

ALLEN G. HEARD, M. D., *Instructor in Physical Diagnosis.*

Sophomore year. Four hours weekly for nine weeks.

This course in physical diagnosis grounds the student in the normal physical signs of the human body. The alterations in these signs in diseased states are also explained and demonstrated. Each student is thus prepared for the clinical studies in the third and fourth years of the curriculum.

The teaching in physical diagnosis is thoroughly practical, and for this purpose the class is divided into small sections, so that each student has the advantage of individual instruction. A brief explanatory talk is given at the beginning of each exercise by the lecturer, the remainder of the time being devoted to the examination of patients in the hospital by the students under the direction of the lecturer and the instructor.

## PHARMACY

RAOUL RENE DANIEL CLINE, PH. G., M. D., *Lecturer on Pharmacy in the School of Medicine.*

Freshman year. Sections. Four hours weekly for one half of the session.

This course is given by practical exercises in the laboratory of pharmacy, and in order that each individual may receive personal instruction and make all the preparations, the class is divided into sections.

The students make those pharmaceutical preparations which are commonly used in the practice of medicine. They are taught how to purify drugs; to combine them without making them unsightly and unpalatable; how to remove substances which cause irritation and nausea, retard absorption, or impart disagreeable odors. The deterioration of drugs is also carefully considered. In handling the pharmaceuticals and chemicals the students become familiar with the various properties of drugs, their incompatibilities, their solubility in different menstrua, and the best methods of administering them.

The following preparations are made during the course; medicated waters, liquors, elixirs, syrups, spirits, tinctures, pills, tablets, suppositories, collodions, and ointments.

The latter part of the course is devoted to reading and criticising actual prescriptions. Students are required to write prescriptions for hypothetical conditions, special attention being directed to doses, incompatibilities, and the best way of giving the more important drugs in common use. The prescriptions are not only discussed from these standpoints, but it is pointed out how they may be made more palatable and less irritating, and how the unpleasant effects of the drugs may be avoided.

## DIETETICS

EDWARD RANDALL, M. D., *Professor of Therapeutics.*

Junior year. One lecture weekly throughout the session.

This course comprises the composition, preparation, digestibility, and nutritional value of foods; also the diets suitable for different diseases.

The following foods are considered in detail with special reference to their use in health and disease: Milk and milk products; eggs, meats, and meat derivatives; fish and shell fish; cereals, with special reference to bread and dextrinized foods; leguminous vegetables; roots and tubers; green vegetables; fruits; spices and condiments; inorganic salts; drinking and mineral waters; tea, coffee, cocoa, and alcohol.

The second part of the course is devoted to the consideration of a suitable diet in those diseases in which the diet plays an important part in the treatment, *e. g.*, acute infections, tuberculosis, digestive diseases, renal diseases, malnutrition, obesity, diabetes, gout, and rheumatism.

### MENTAL AND NERVOUS DISEASES

MARVIN LEE GRAVES, M. A., M. D., *Lecturer on Nervous and Mental Diseases.*

Junior and senior years. One lecture and one clinic weekly throughout the session.

The more important and practical phases of the subjects are covered in didactic and clinical lectures. Illustrative cases are presented, examined, and discussed. The organic and functional psychoses and all the ordinary organic and functional diseases of the nervous system are treated. The practical application of electricity for diagnosis and treatment is taught. Students are instructed in morbid sensory and motor manifestations, the disordered reflexes, the disturbances of the special senses, speech, etc. The wards and out-patient department of the John Sealy Hospital and other sources afford an abundant supply of clinical material for these purposes.

### DISEASES OF CHILDREN

ALLEN GEORGE HEARD, M. D., *Adjunct Professor of Pediatrics.*

Senior year. One recitation each week throughout the session.

For the didactic instruction recitations are used instead of lectures. The students are required to prepare themselves upon an assigned subject from a standard text-book. They are then

quizzed on this, and further explanations are given, or illustrative cases described, when necessary.

Clinical instruction in the important diseases of infancy and childhood is given at the John Sealy Hospital during the junior and senior years in the ward classes in clinical medicine. The outdoor clinics also furnish a great variety of cases for this instruction.

The subject of infant feeding is supplemented by a laboratory course. The class is divided into small sections so that each individual has the opportunity of doing the practical work in preparing various modifications of milk for different conditions, pasteurization, etc. The composition of infant foods is also studied in this way.

## DEPARTMENT OF MEDICINE.

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## SUMMARY OF HOURS DEVOTED TO EACH SUBJECT IN THE SCHOOL OF MEDICINE

	First Year	Second Year	Third Year	Fourth Year	Total	Total for Course	
						Ward Classes and Lectures and Recitations	Ward Classes and Lectures and Recitations
Anatomy	280	280	280	280	1120	112	112
Surgical Anatomy	70	84	112	112	380	182	182
Physiology	38	56	112	112	336	294	294
Material Medica	56	56	40	40	168	112	112
General Inorganic Chemistry	56	56	20	20	160	40	40
General Biology	56	56	20	20	160	212	212
Histology	32	32	20	20	120	32	32
Embryology	16	56	112	112	200	112	112
General Pathology	18	56	56	56	180	90	90
Special Pathology and Morbid Anatomy	56	56	48	48	200	108	108
Bacteriology	56	56	112	112	224	104	104
Pharmacology	56	56	28	28	168	84	84
Medical Chemistry	56	56	26	26	168	84	84
Hygiene	56	56	26	26	168	84	84
Dietetics	56	56	26	26	168	84	84
Therapeutics	56	56	26	26	168	84	84
Pharmacy	56	56	26	26	168	84	84
Physical Diagnosis	56	56	26	26	168	84	84
Medicine	56	56	26	26	168	84	84
Surgery	28	84	56	60	240	126	126
Obstetrics	56	56	28	28	140	72	72
Gynecology	28	28	28	28	112	56	56
Nervous and Mental Diseases	28	28	28	28	112	56	56
Diseases of the Eye	28	28	28	28	112	56	56
Diseases of the Ear, Nose, and Throat	28	28	28	28	112	56	56
Dermatology	28	28	28	28	112	56	56
Pediatrics	28	28	28	28	112	56	56
Medical Jurisprudence	28	28	28	28	112	56	56
Total	1014	1088	1116	1330	45564	322	322

### SCHOLARSHIPS

In order to promote professional education among worthy and ambitious women, a scholarship open to women students in the Medical Department of the University of Texas was founded in 1903 by Mr. George W. Brackenridge, of San Antonio.

This is known as the "Isabella H. Brackenridge Scholarship." The holder is entitled to the sum of \$240, payable in installments of \$30 at the end of each of the eight months of the scholastic year. This scholarship has been permanently endowed by bonds of the value of \$5000, deposited with the state treasurer, the yearly income from these bonds being sufficient for the maintenance of the scholarship.

This scholarship is awarded to that woman of the School of Medicine above the freshman class who shall have attained, in the previous session of the school, the highest general average in the course of study, provided that this general average be not less than eighty-five per cent, and that the grade for the session in any one subject be not less than seventy per cent. When this scholarship is once awarded to any person for any year, such person is entitled to the same for each successive year she is a student in the School of Medicine, provided she maintains the average grades named above. In case the holder shall fall below the average standing of her class, or for any reason shall terminate her connection with the school, the monthly payments shall cease.

This scholarship is awarded at the end of each session to the person designated by the Dean of the Medical Faculty. For the session of 1912-1913 it is held by Rosalie McAdams, Ph. G.

Provision has been made for a number of scholarships of \$240 each, for young women who desire to study medicine.

They are awarded by a committee appointed by the donor. For the session of 1912-1913 the holders of these scholarships are: Frances May McAdams, B. S., Ellen Cover, Ray Karchmer, Violet H. Keiller, B. A., Clara G. Cooke, Minnie L. Maffett, Perle Penfield, B. S., Edda von Bose, and Ruby K. Embry, B. A.

## JOHN SEALY HOSPITAL

### STAFF

#### Board of Managers

Dr. Edward Randall, President; Dr. M. L. Graves, Vice-President;  
John Sealy, V. E. Austin, I. H. Kempner.

#### Visiting Staff

Physician and Neurologist.....	Dr. Marvin L. Graves
Surgeon.....	Dr. J. E. Thompson
Obstetrician and Gynecologist.....	Dr. George H. Lee
Pathologist.....	Dr. James J. Terrill
Dermatologist and Assistant Surgeon.....	Dr. H. R. Dudgeon
Ophthalmologist and Aurist.....	Dr. Seth M. Morris
Pediatrist and Assistant Physician.....	Dr. Allen G. Heard
Assistant Obstetrician and Gynecologist.....	Dr. H. O. Sappington
Assistant Physician.....	Dr. Thad Shaw

#### Superintendent

Clara Lincoln Shackford

#### Resident Staff

Dr. W. R. Cooke	Dr. R. F. Goodwin
Dr. E. H. Newton	Dr. Homer Donald
Dr. G. M. Graham	Dr. R. A. Hasskarl

#### Clinical Pathologist

Dr. Ethel Lyon Heard

#### Outdoor Clinical Staff

Chief of Surgical Clinic.....	A. O. Singleton, M. D.
Chief of Obstetrical and Gynecological Clinic.....	H. O. Sappington, M. D.
Chief of Medical Clinic.....	Thad Shaw, M. D.
Chief of Clinic for Ophthalmology and Otology.....	S. M. Morris, M. D.
Chief of Pediatric Clinic.....	Allen G. Heard, M. D.

**Apothecary**

Frank N. Haggard

**Superintendent of School of Nursing**

Ethel D'Arcy Clay, R. N.

**HISTORY AND DESCRIPTION**

"It being represented to the citizens of Galveston, and to the people of the state of Texas, that John Sealy, late of the city of Galveston, departed this life in the month of August, 1884, inspired with a generous and philanthropic motive and possessed of a large real and personal estate, of which by his bequest he devoted \$75,000 to the establishment of a hospital in said city, naming for the purpose the city council of the city of Galveston and the regents of the University of Texas, jointly, for and in behalf of the Medical Department of said University, to manage and conduct the same for the reception and relief of sick and diseased persons; the property of said hospital shall be exempt from taxation, and shall be entitled to the benefit and provisions of the law relative to charitable institutions.

"The regents may take and hold any additional donations, grants, devises, and bequests in further support of, or addition to, said hospital.

"The direction, ownership, and disposition of said hospital shall be vested in said regents and their successors, for the object and purposes heretofore set forth, and pursuant to the wishes and directions of the last will and testament of its founder aforesaid."

The John Sealy Hospital occupies a block of ground between Eighth and Ninth Streets, and between Avenues A and B, contiguous to the block occupied by the College Building. There are eight wards, besides a number of private rooms and rooms for officials.

In addition to the original bequest for the foundation of the hospital, the heirs of the late John Sealy have, from time to time, very generously contributed for its repair and improvement a sum aggregating more than \$80,000, and have recently offered to erect a new building, about one-half the size of the main hospital, which will provide additional wards for women patients. This will in-

crease the number of patients considerably and afford better facilities for clinical teaching.

The entire hospital, including the Nurses' Home and the building for colored patients, is heated by steam and lighted by electricity. The wards and rooms are large and airy, having been built with special reference to the comfort of the sick in the prevailing warm seasons of this climate.

The upper floor of the central part of the main hospital building is occupied by a clinical theater, together with a sterilizing room, preparation rooms, dressing rooms, etc. Clinics are held here every week day throughout the session. By a private benefaction this portion of the hospital has recently been completely remodeled and fitted up with all the facilities of a modern surgical operating room.

A two-story brick building, accommodating about fifty beds, in two large wards, with several private rooms, has been erected on the north side of the hospital lot for the accommodation of the negro patients. This building was completed in 1901, and its construction was made possible by a public benefaction amounting to \$18,000. The old frame building has been thoroughly remodeled, and now serves as a home for the nurses. A portion of the first floor is devoted to the laboratory of clinical medicine.

On the west side of the block occupied by the hospital a reinforced concrete building has been erected for children. This building has two commodious wards with wide galleries and several private rooms. It provides all the necessary hospital accommodations for the care of twenty-three children.

The University has acquired for hospital purposes all the ground intervening between the original hospital block and the sea-wall. On the extreme north end of this plot of ground a substantial building of reinforced concrete has been constructed as an isolation pavilion for contagious diseases. This building provides suitable accommodations for twenty-five or more patients with facilities for isolating by sexes, races, and diseases.

On this ground also it is contemplated that in the near future a new Nurses' Home will be built.

The hospital is leased to the city of Galveston for a period of twenty-five years by the University of Texas at a nominal rental, with the agreement that the visiting staff to the hospital shall be designated by the regents of the University from the medical faculty. The lease provides that the John Sealy Hospital is to be

used as a medical college hospital in connection with the Medical Department of the University of Texas, and that the wards, clinics, theater, etc., of the institution are to be used by the staff for giving clinical instruction to medical students.

The city of Galveston maintains the John Sealy Hospital as a city hospital for the free treatment of the indigent sick and disabled, by an annual appropriation of \$33,000. The income derived from private rooms is an additional source of revenue.

There are few hospitals in which the patients can be utilized so fully for bedside and clinical instruction as in the John Sealy Hospital. The only limitations are the welfare and comfort of the patients. Without detracting in any way from the benefit derived by the patients from hospital treatment, the students are enabled to profit by the very exceptional clinical advantages.

The hospital has 155 beds, and this number can be increased in case of emergency. During the year 1912 there were 2281 patients treated in the wards, the average number of indoor patients for each day during the year being 128. In the dispensaries or outdoor clinics there were 7136 new cases and 10,303 old cases; the average number of outdoor patients treated each day was 56.

The resident staff of the hospital is appointed annually from the graduating class according to the grades attained in the final examinations for the degree in medicine.

The nursing is done by the students of the School of Nursing under the direction of the Instructor in Nursing.

Galveston is the foremost port in this country in the exportation of cotton, and is one of the most important seaport cities of the southern states. Her shipping interests, already large, are growing rapidly. With this growth the number of hospital cases available for teaching purposes has been more than doubled within the past few years. For 1901 the average daily number of indoor patients in the John Sealy Hospital was 49; for 1905 the average number of patients for each day was 98; for 1906 it was 109; for 1907 it was 118; for 1908 it was 115; for 1909 it was 115; for 1910 it was 113; for 1911 it was 124; for 1912 it was 128.

The character of the population from which the hospital wards are filled assures a great variety of medical affections, while the numerous railroad and steamship lines which converge at this point furnish an abundance of surgical cases.

The following condensed report of the number of patients treated in the indoor and outdoor departments of the hospital and the number of operations performed from January 1, 1912, to January 1, 1913, will serve to show the excellent opportunities for clinical teaching in this school.

## REPORT OF MEDICAL CASES IN HOSPITAL

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
Abscess, liver, amebic.....	1					1
Abscess, perineal.....	1					1
Abscess, subdiaphragmatic.....	1					1
Addison's disease.....	1			1		
Alcoholism, acute.....	18	18				
Alcoholism, chronic.....	12		12			
Anemia, pernicious.....	1			1		
Arthritis, deformans.....	3		1	2		
Arthritis, gonorheal.....	3		3			
Asthma, bronchial.....	4		4			
Botulismus.....	1	1				
Bronchitis, acute.....	10	5	5			
Bronchitis, chronic.....	11		8	2		1
Carcinoma of breast.....	1			1		
Carcinoma of stomach.....	3		1			2
Cardio-vascular diseases:						
Aneurism of thoracic aorta.....	6		4	1		1
Aneurism of innominate artery.....	2			1	1	
Aortic and mitral insufficiency.....	17		13	1		3
Aortitis, syphilitic.....	1		1			
Arteriosclerosis.....	3		2	1		
Cardiac dilatation, acute.....	2		1			
Endocarditis, chronic.....	1					1
Endocarditis, ulcerative.....	2			1		
Mitral insufficiency.....	36		30			6
Myocarditis, acute.....	1	1				
Myocarditis, chronic.....	6		2	1	1	2
Thrombosis of coronary artery and arch of aorta.....	1					1
Thrombosis of portal vein.....	1					1
Tricuspid insufficiency.....	1					1
Cholangitis, acute, catarrhal.....	4	4				
Colon, dilatation of, congenital.....	1		1			
Colitis, ulcerative, acute.....	2	2				
Constipation, chronic.....	4		4			
Diabetes mellitus.....	2		1	1		
Dysentery, amebic.....	6		3	1	1	1
Eneuresis.....	1	1				
Febricula.....	1	1				
Gastralgia.....	2		2			
Gastritis, acute.....	13	12		1		
Gastritis, chronic.....	16	13		2	1	
Gastro-enteritis, acute.....	33	17	10		1	5
Gastrophtosis.....	2		1	1		
Gastric ulcer.....	1		1			
Gonorrhea, chronic.....	1					1
Gout, chronic.....	6		6			
Heat exhaustion.....	1	1				
Hemoptysis, post operative.....	1	1				
Hodgkin's disease.....	2		1			1
Hyperchlorhydia.....	3		1		2	
Impetigo contagiosa.....	3		1		2	
Infectious diseases:						
Diphtheria.....	1	1				
Influenza, acute.....	2	2				
Malaria, aestivo-autumnal.....	11	9	2			

## REPORT OF MEDICAL CASES IN HOSPITAL—Continued

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
<b>Infectious diseases—Continued.</b>						
Malaria, tertian.....	14	13	1			
Meningitis, cerebro-spinal, epidemic.....	85	58	2	1		24
Pellagra.....	12		5	3		4
Pneumonia, broncho-.....	5	3	1			1
Pneumonia, lobar.....	27	21	1	1		4
Scarlet fever.....	1	1				
Tetanus.....	1					1
Typhoid fever.....	22	21				1
Tuberculosis, miliary, acute.....	2					2
Tuberculosis, pulmonary.....	57		12	16		29
Tuberculosis of intestine.....	1			1		
Tuberculosis of kidney.....	1				1	
Tuberculosis of peritoneum.....	1			1		
Tuberculous adenitis, cervical.....	1		1			6
Liver, cirrhois of.....	7		1			1
Malnutrition.....	2	1				1
Meningitis, basilar.....	1					2
Meningitis, cerebro-spinal, pneumococci.....	2					
Meningitis, serous, alcoholic.....	2		2			
Meningitis, serous, lepto-, chronic.....	1					1
Meningitis, strepto- and staphylococci.....	1					1
Meningitis, tuberculous.....	2			1		
Myalgia.....	3		3			
Myositis.....	1		1			19
Nephritis, chronic interstitial.....	63		41	3		12
Nephritis, chronic parenchymatous.....	25		12	1		
No diagnosis.....	1		1			
Orethritis, acute.....	1	1				
Periostitis, syphilitic.....	1		1			
Plumbism, chronic.....	1		1			
Pleurisy, fibrinous, acute.....	9	6	3			
Pleurisy with effusion.....	5		5			
Pleurisy, tuberculous.....	3	1	1			1
Poisoning by:						
Veronal.....	1	1				
Chloroform.....	1	1				
Bichloride of mercury.....	2	2				
Carbolic acid.....	2	2				
Ptomaine.....	1	1				
Prematurity.....	1			1		
Purpura, rheumatic.....	1	1				
Ptyalism, acute.....	1	1				
Pyelitis, acute.....	1	1				
Rheumatism, articular, acute.....	10	1	9			
Rheumatism, articular, chronic.....	2	1	1			
Rheumatism, muscular, acute.....	3	2	1			
Rheumatism, muscular, chronic.....	3	1	2			
Syphilis, secondary.....	5	1	3		1	1
Syphilis, tertiary.....	5		3			2
Stomatitis, acute, ulcerative.....	2	2				
Tonsillitis, follicular, acute.....	1	1				
Uncinariasis.....	1		1			
Urticaria.....	1	1				
Vasques disease.....	2		2			
<b>Totals.....</b>	<b>676</b>	<b>237</b>	<b>238</b>	<b>47</b>	<b>15</b>	<b>138</b>

## REPORT OF MENTAL AND NERVOUS CASES IN HOSPITAL.

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
Amyotrophic lateral sclerosis.....	1					1
Ataxia, Friedrich's.....	1		1			
Ataxia, locomotor.....	7		5	2		
Cerebellar tumor.....	1			1		
Cerebral tumor.....	1			1		
Cerebral hemorrhage.....	5		2			3
Cerebral palsy of childhood.....	1			1		
Delerium tremens.....	4	4				
Epilepsy.....	7	1	4	2		
Hemiplegia.....	13		8	3		2
Hysteria.....	3		1	2		
Insanities:						
Dementia, paralytica.....	2		1	1		
Dementia, praecox.....	9			9		
Dementia, presenile.....	1			1		
Dementia, secondary.....	1			1		
Dementia, senile.....	3			3		
Korsakoff's psychosis.....	2		1	1		
Mania, depressive.....	4		1	3		
Paranoia.....	2			2		
Malingering.....	1	1				
Meningo-myelitis.....	1			1		
Morphinomania.....	2		1	1		
Myitis, compression.....	2		1			1
Neurasthenia.....	31		26	1	4	
Neuritis, multiple.....	3		3			
Neuritis, multiple, alcoholic.....	6	1	5			
Pachymeningitis hemorrhagica.....	1					1
Paralysis agitans.....	1			1		
Paralysis, spastic spinal (Erb's).....	1			1		
Paralysis, facial nerve (Bell's palsy).....	1			1		
Pituitary body, tumor of.....	1					1
Poliomyelitis, anterior.....	1					1
Pseudo paresis, alcoholic.....	2		2			
Syphilis, cerebral.....	3			2		1
Syphilis, cerebro-spinal.....	5		4			1
Totals.....	130	7	69	38	4	12

## STATEMENT OF SURGICAL WARDS.

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
<b>Abscess:</b>						
Hepatic.....	5	4				1
Ischio-rectal.....	5	4	1			
Miscellaneous.....	21	8	13			
Perineal.....	5	3	2			
Prostatic.....	1	1				
Psoas.....	2		1			1
Subdiaphragmatic.....	2				1	1
Adenoma of breast.....	1	1				
Adhesions, post operative.....	2		2			
<b>Aneurisms:</b>						
Carotid.....	1	1				
Femoral.....	1	1				
Innominate.....	1		1			
Popliteal.....	1	1				
Ankylosis of knee.....	1		1			
Appendicitis.....	64	58	3		1	2
<b>Arthritis:</b>						
Gonorrhœal.....	3		3			
Supurative.....	2	2				
Bubo, inguinal.....	28	9	19			
Burns.....	9	3	6			
Bursitis, prepatellar.....	2	2				
<b>Calculus:</b>						
Renal.....	1	1				
Urteral.....	1		1			
Carbuncle.....	2	2				
<b>Carcinoma:</b>						
Breast.....	9		8	1		
Cheek.....	1		1			
Gall bladder.....	1			1		
Lower lip.....	3		2	1		
Nose.....	2		2			
Orbit.....	1		1			
Pelvic glands, secondary.....	1			1		
Prostate.....	3			1		2
Rectum.....	3			1		2
Stomach.....	3		1			2
Cellulitis.....	10		7			3
Chancroids.....	10	1	9			
Cholecystitis.....	5	2	3			
Cleft palate.....	1	1				
Concussion of brain.....	1	1				
Cyst, echinococcus, of liver.....	1				1	
<b>Dislocations:</b>						
Elbow.....	1	1				
Hip.....	1	1				
Dysentery, amebic.....	3		3			
Elephantiasis of leg.....	2	1	1			
Encephalitis, acute.....	1			1		
Epididymitis.....	12		12			
Erysipelas of face.....	2	1				1
<b>Fistula:</b>						
Anal.....	12	8	3	1		
Biliary.....	1	1				

## STATEMENT OF SURGICAL WARDS—Continued.

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
<b>Fistula—Continued:</b>						
Fecal.....	1			1		
Vesico-intestinal.....	1			1		
<b>Fissure, anal.....</b>	3	2	1			
<b>Foreign body in:</b>						
Bronchus.....	1	1				
Knee-joint.....	1	1				
Oesophagus.....	1	1				
<b>Fractures.</b>						
Clavicle.....	4	4				
Elbow.....	1	1				
Femur.....	7	6				1
Humerus.....	4	2	2			
Jaw, lower.....	2	2				
Patella.....	2	2				
Pelvis.....	1	1				
Pott's.....	2		2			
Radius and ulna.....	2		2			
Ribs.....	9	9				
Skull.....	7	4	3			
Tarsal bones.....	1	1				
Tibia and fibula.....	16	6	10			
<b>Furunculosis.....</b>	4	3	1			
Gall stones.....	4	4				
<b>Gangrene of leg:</b>						
Senile.....	3	2				1
Diabetic.....	2	1				1
<b>Goiter, exophthalmic.....</b>	1		1			
<b>Gonorrhea.....</b>	11		11			
<b>Hare-lip.....</b>	3	2				
<b>Hematuria.....</b>	3		3			
<b>Hemorrhoids.....</b>	29	20	9			
<b>Hemothorax.....</b>	2	2				
<b>Hernia:</b>						
Cerebral.....	1			1		
Inguinal.....	31	29				2
Ventral.....	7	6			1	
<b>Hydrocele.....</b>	7	7				
<b>Hydrocephalus, acute.....</b>	1		1			
<b>Infection:</b>						
Hand.....	3	3				
Amputation stump.....	1	1				
<b>Intestinal obstruction.....</b>	3	2				1
<b>Keloid.....</b>	1			1		
<b>Lane's kink.....</b>	1	1				
<b>Lipoma.....</b>	4	4				
<b>Median nerve divided.....</b>	1		1			
<b>Movable kidney.....</b>	1			1		
<b>Necrosis of tibia.....</b>	1				1	
<b>Needle:</b>						
In hand.....	1	1				
In muscles of back.....	1	1				
<b>Neuralgia, trifacial.....</b>	1		1			
<b>Orbititis:</b>						
Mumps.....	2	2				
Syphilitic.....	1		1			

## STATEMENT OF SURGICAL WARDS—Continued.

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
Osteomyelitis.....	7		6			1
Painful amputation stump.....	1	1				
Papilloma of bladder.....	1		1			
Paraphimosis.....	1	1				
Perforation, intestinal:						
Duodenal ulcer.....	2					2
Typhoid ulcer.....	1					1
Peritonitis, tubercular.....	2		2			
Phimosis.....	3	3				
Prolapse of rectum.....	2	1	1			
Prostatitis, acute.....	2		2			
F prostate, hypertrophy of.....	7	4	1		1	1
Pyelitis.....	4		4			
Pyo-nephrosis.....	1					1
Pyothorax.....	1	1				
Sarcoma:						
Antrum.....	1		1			
Femur, lower end.....	1		1			
Ilium.....	2		1			1
Humerus, head of.....	1		1			
Retroperitoneal.....	4			4		
Scalp.....	1		1			
Sinus of kidney.....	1	1				
Sprain:						
Ankle.....	10	3	7			
Back.....	4	4				
Hip.....	1	1				
Wrist.....	1		1			
Stricture:						
Pylorus.....	1	1				
Rectum.....	7		7			
Urethra.....	22		19	1	2	
Syphilis.....	39		38	1		
Talipes equinovarus.....	2	2				
Tetanus.....	1					1
Thyroglossal duct, patent.....	3	3				
Tuberculosis:						
Cutis of face.....	1		1			
Glands of neck.....	8		7	1		
Hip.....	2		2			
Kidney.....	4		2	2		
Knee.....	3		3			
Spine.....	1		1			
Ulcer:						
Duodenal.....	5	2	1			
Gastric.....	9		8			1
Leg.....	17	4	12	1		
Pylorus.....	1		1			
Varicocele.....	3	3				
Varicose veins of leg.....	2		2			
Volvulus of ileum.....	1					1
Whitlow.....	1	1				
Wounds:						
Contused.....	35	5	29			1
Gunshot.....	22	2	15	3		2

## STATEMENT OF SURGICAL WARDS—Continued.

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
Wounds—Continued.						
Incised.....	24	6	16			2
Infected.....	10	4	6			
Lacerated.....	13	4	9			
Punctured.....	1	1				
Stab.....	6	2	4			
Totals.....	754	314	368	25	7	40

## OPERATIONS IN SURGICAL DEPARTMENT.

Abcesses drained:						
Hepatic.....						8
Ischio-rectal.....						6
Miscellaneous.....						17
Pancreatic.....						1
Psoas.....						1
Subdiaphragmatic.....						2
Amputations:						
Finger.....						2
Foot.....						1
Knee-joint (Stephen Smith).....						3
Penis.....						1
Seat of election.....						2
Thigh.....						5
Thumb.....						1
Toe.....						3
Aneurisms, Matas' operation for.....						3
Appendectomies.....						73
Appendicostomies.....						2
Arthroplasties:						
Hip.....						1
Knee.....						1
Aspiration:						
Knee-joint.....						1
Lateral ventricles of brain.....						4
Biliary fistula repaired.....						1
Bubectomies.....						21
Castration.....						1
Cauterizations:						
Chancroid.....						4
Venereal wart.....						2
Cellulitis, incisions for.....						18
Cholecystotomies.....						5
Circumcisions.....						20
Cleft palate repaired.....						1
Colotomies.....						2
Cyst, echinococcus of liver, drained.....						1
Cystoscopies.....						31
Cystotomies, suprapubic.....						6
Decortication, lung.....						1

## OPERATIONS IN SURGICAL DEPARTMENT—Continued.

Excisions:	
Adenoma of breast.....	2
Angioma of cheek.....	1
Angioma of lip.....	1
Breast (complete).....	10
Bursa, prepatellar.....	1
Carbuncle.....	3
Cyst, sebaceous.....	1
Elbow-joint.....	1
Epithelioma of cheek.....	1
Epithelioma of lip.....	2
Epithelioma of nose.....	2
Epithelioma of orbit.....	1
Fibroma of breast.....	1
Ganglion of wrist.....	1
Glands, axillary.....	2
Blends, cervical, tuberculous.....	9
Head of radius.....	1
Jaw, upper.....	2
Keloid.....	2
Lipoma.....	2
Myeloma of head of humerus.....	1
Rectum (Kraske).....	3
Rectum for prolapse.....	1
Rodent ulcer of cheek.....	1
Sarcoma of filium.....	1
Sarcoma of scalp.....	1
Shoulder-joint.....	2
Thyroglossal duct.....	3
Tissue for examination.....	1
Toe nail.....	2
Tuberculous skin of cheek.....	1
Varicose veins of leg.....	2
Exploratory laparotomies.....	16
Extracted bullets.....	5
Fistula, anal, incised.....	11
Fistula biliary, repaired.....	1
Fistula faecal, repaired.....	3
Foreign body removed from:	
Knee-joint.....	1
Trachea.....	1
Fractures reduced:	
Jaw.....	2
Tibia and fibula.....	3
Gall stones, operation for.....	6
Gastro-enterostomies.....	9
Hare-lips repaired.....	4
Hemorrhoidectomies.....	23
Hemothorax drained.....	2
Herniotomies:	
Femoral.....	2
Inguinal.....	34
Ventral.....	5
Hydrocele, radical cure of.....	6
Injection of formaldehyde and glycerine into joints.....	5
Jejunostomy.....	1
Ligation of:	
External carotid.....	2
Popliteal.....	1
Subclavian.....	1
Needles extracted.....	2
Nephrectomies.....	2
Nephrotomies.....	3
Neurectomy, supraorbital.....	1

## OPERATIONS IN SURGICAL DEPARTMENT—Continued.

Plastic operations on:						
Cheek.....	1					
Eyelid.....	1					
Lower lip.....	1					
Nose.....	1					
Penis.....	1					
Plate applied in fracture of:						
Humerus.....	1					
Radius and ulna.....	1					
Tibia.....	2					
Proctoscopies.....	3					
Prostatectomies:						
Perineal.....	1					
Suprapubic.....	4					
Rectopexy.....	1					
Removal of plate from tibia.....	3					
Salvarsan, intravenous injections of.....	39					
Sequestrectomies.....	9					
Skin graft.....	4					
Stricture of rectum, dilated.....	3					
Suture of:						
Duodenum, performed.....	2					
Kidney, ruptured.....	2					
Liver, ruptured.....	2					
Nerves.....	2					
Typhoid perforation of ileum.....	1					
Wound incised, chest.....	1					
Sutures encysted in loin, removed.....	1					
Talipes equinovarus (Phelp's operation).....	2					
Tenotomy, semitendinosus.....	1					
Tenorrhaphy.....	1					
Thyroidectomy, partial.....	1					
Trephine.....	3					
Urethrotomies:						
External.....	8					
Internal.....	3					
Varicocele, radical cure of.....	3					
Volvulus of ileum, reduced.....	1					
Whitlow, incised.....	1					
Total.....	580					

## STATEMENT OF GYNECOLOGICAL AND OBSTETRICAL WARD

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
Abortion:						
Incomplete.....	14	11	3			
Induced.....	1	1				
Inevitable.....	1	1				
Threatened.....	2		2			
Abscess of Bartholin's gland.....	4	1	3			
Abscess, pelvic.....	4	3	1			
Adhesions, abdominal, post operative.....	5	3	1			
Cervicitis.....	2	2				

STATEMENT OF GYNECOLOGICAL AND OBSTETRICAL WARD—  
Continued

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
<b>Cervix uteri:</b>						
Adenoma of.....	1		1			
Carcinoma of.....	9	1	2	4		2
Epithelioma of.....	2		2			
Erosions of.....	3	2	1			
Hypertrophy of.....	5	4	1			
Laceration of.....	12	12				
Polyp of.....	2	2				
Cyst, dermoid.....	2	2				
Cyst, intraligamentous.....	2	1	1			
Cyst of vaginal wall.....	1	1				
Cystitis, gonorrhreal.....	2		2			
Cystocele.....	2	2				
Dysmenorrhea.....	4	1	3			
Eclampsia.....	1	1				
Edema of labia.....	1	1				
Endo cervicitis.....	1	1				
Ondometritis.....	6	4	2			
Fistula, abdominal.....	60	33	23	3	1	
Hemorrhage, post partum.....	4	4				
Hernia, ventral.....	3	1	2			
Hydrosalpinx, double.....	2	1	1			
Hyperinvolution.....	2		2			
Labia, fibroid of.....	2	1	1			
Leucorrhea.....	4		3	1		
Metritis.....	1		1			
Menorrhagia.....	5	1	3	1		
Metrorrhagia.....	3	2	1			
Nymphia, cyst of.....	1	1				
Ovaries:						
Cystic, bilateral.....	4	4				
Cystic, unilateral.....	55	44	10			1
Fibroid.....	3	2	1			
Prolapse of.....	5	4		1		
Oophoritis.....	5	3	2			
Perineum, laceration of.....	17	16	1			
Perineum, laceration of, complete.....	2	1	1			
Peritonitis, acute.....	2	1				1
Pregnancies:						
Delivered.....	71	71				
Not delivered.....	15	12	3			
Extrauterine.....	2	1				1
Interstitial.....	1	1				
Labor induced.....	3	3				
Placenta previa.....	1					1
Puerperium.....	1	1				
Puerperal infection.....	1	1				
Pyosalpinx, double.....	22	14	5		1	2
Pyosalpinx, single.....	14	9	5			
Rectocele.....	3	3				
Recto-vaginal fistula.....	3		3			
Salpingitis, double.....	24	13	11			
Salpingitis, single.....	26	15	9	2		
Subinvolution.....	4	4				

STATEMENT OF GYNECOLOGICAL AND OBSTETRICAL WARD—  
Continued

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
Syphilis.....	9	7	2	.....	.....	.....
Uterus:						
Anteflexion of.....	2	1	1	.....	.....	.....
Carcinoma of.....	6	1	2	.....	3	.....
Chorio-epithelioma of.....	1	.....	1	.....	.....	.....
Fibroids.....	48	30	9	6	.....	3
Hypertrophy of.....	2	1	1	.....	.....	.....
Pinhole os.....	1	1	.....	.....	.....	.....
Polyp of.....	1	.....	1	.....	.....	.....
Prolapse of.....	3	3	.....	.....	.....	.....
Retroflexion of.....	4	1	3	.....	.....	.....
Retroversion of.....	30	20	7	3	.....	.....
Tuberculosis of.....	1	.....	1	.....	.....	.....
Vagina:						
Carcinoma of.....	1	.....	1	.....	.....	.....
Laceration of.....	1	1	.....	.....	.....	.....
Stenosis of.....	2	.....	1	1	.....	.....
Vaginitis, gonorrhreal.....	10	5	5	.....	.....	.....
Vaginitis, simple.....	5	1	2	2	.....	.....
Venereal warts.....	1	1	.....	.....	.....	.....
Ulcers of vaginal orifice, syphilitic.....	12	2	9	.....	1	.....
Urethritis, gonorrhreal.....	5	1	4	.....	.....	.....
Uretero-vaginal fistula.....	1	.....	1	.....	.....	.....
Totals.....	605	392	164	31	2	16

## OPERATIONS IN GYNECOLOGICAL DEPARTMENT

Abortion, incomplete.....	5
Abortion, induced.....	2
Abscess, pelvic, drained through vagina.....	8
Adhesions, post operative, separated.....	2
Appendectomy, secondary to pelvic conditions.....	13
Cervix uteri:	
Amputation of.....	5
Polyp of, removed.....	2
Colporrhaphy.....	2
Condylomata of vulva, removed.....	3
Curettage.....	73
Cyst of vagina removed.....	1
Cyst of labia removed.....	1
Examination for diagnosis only.....	21
Fistula, abdominal, post operative, repaired.....	1
Hernia, ventral, repaired.....	2
Labor, induced, premature.....	2
Labor, terminated by craniotomy.....	1
Labor, terminated with forceps.....	4
Labor, terminated by version, transverse presentation.....	1
Laparotomies:	
Dermoid cyst.....	1
Exploratory.....	4

## OPERATIONS IN GYNECOLOGICAL DEPARTMENT—Continued

Fibroids, uterine, enucleated.....	8
Hysterectomy, supravaginal.....	8
Hysterectomy, vaginal.....	2
Hystero-salpingo-oophorectomy.....	22
Oophorectomy, double.....	1
Oophorectomy, single.....	15
Pan-hysterectomy.....	8
Pregnancy, interstitial.....	1
Pregnancy, tubal.....	1
Pregnancy associated with myomata.....	1
Salpingectomy, double.....	7
Salpingectomy, single.....	11
Salpingo-oophorectomy, double.....	22
Salpingo-oophorectomy, single.....	21
Suspension of uterus, ventral.....	21
Suspension of uterus by ligaments.....	3
Perineorrhaphy.....	14
Perineorrhaphy, Emmet's operation.....	2
Trachelorrhaphy.....	14
Ulcers of vaginal orifice.....	2
Uterus, carcinoma of, ligation of ovarian arteries.....	1
Venereal warts removed.....	2
Vesico-vaginal fistula repaired.....	2
Total.....	343

## EYE CASES—INDOOR

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
Blepharitis, chronic.....	1	1				
Cataract:						
After.....	6		6			
Double.....	3		2	1		
Incipient, double.....	1		1			
Conjunctivitis:						
Acute.....	2	2				
Chronic.....	1	1				
Epidemic catarrhal.....	1	1				
Gonorrhreal.....	2	2				
Corneal injury.....	1	1				
Corneal opacity.....	1			1		
Corneal ulcer.....	2	2				
Ectropion.....	1	1				
Glaucoma.....	3		3			
Glaucoma, secondary, traumatic.....	3		3			
Iritis.....	6	6				
Iritis, gummatous.....	3	1	2			
Lacerated wound of eye ball.....	1	1				
Ophthalmia neonatorum, gonorrhreal.....	1	1				
Optic atrophy.....	1			1		
Pulsating exophthalmos.....	1		1			
Strabismus, convergent.....	2	1	1			
Strabismus, internal.....	3		3			
Trachoma.....	3		3			
Totals.....	50	20	26	3		

## EAR, NOSE AND THROAT CASES—INDOOR

Diagnosis.	Total number.	Recovered.	Improved.	Not improved.	Not treated.	Died.
Abscess, peritonsillar.....	1			1		
Adenoids.....	15	15				
Deafness, labyrinthian following meningitis.....	1			1		
Mastoiditis, acute.....	2	2				
Mastoiditis, chronic, suppurative.....	3	2	1			
Otitis media, acute.....	1	1				
Otitis media, chronic, suppurative.....	3	2	1			
Pharyngitis, specific.....	1			1		
Sinusitis, frontal.....	2	2				
Tonsillitis, acute.....	8	8				
Tonsillitis, chronic, hypertrophic.....	28	28				
Tuberculosis, laryngeal.....	1					1
Totals.....	66	60	2	3		1

## OPERATIONS IN EYE, EAR, NOSE AND THROAT DEPARTMENT

Adenoids, removal of.....	46
Cataract, extraction of.....	5
Cataract, after.....	1
Eye, enucleation of.....	9
Dislocated lense, operation for.....	1
Iridectomy.....	6
Mastoidectomy.....	1
Mastoid, radical operation.....	4
Pterygium, transplantation of.....	2
Strabismus, advancement of tendons.....	1
Strabismus, tenotomy.....	4
Tonsillectomy, double.....	35
Total.....	115

## REPORT OF CLINICAL LABORATORY

Bacterial (smear) examination of discharges:	
Cervix uteri.....	52
Eye.....	4
Nasal.....	446
Sputum.....	246
Urethral.....	8
Vaginal.....	61
Bacterial and cytological examination of fluids:	
Abdominal.....	4
Cerebro-spinal.....	150
Joint.....	2
Pleural.....	17
Urine.....	31
Bacterial examination by cultures:	
Blood.....	9
Pus.....	16
Throat.....	18

Blood examinations:						
Complete examinations.....						873
Examinations for malaria.....						515
Leucocyte and differential counts only.....						139
Serum diagnosis for typhoid fever.....						151
Feces.....						120
Histological examination of tissues.....						105
Stomach contents.....						94
Urinary examinations.....						2075
Wasserman reaction, blood.....						90
Wasserman reaction, cerebro-spinal fluid.....						10

**JOHN SEALY HOSPITAL: SUMMARY OF CASES TREATED  
IN 1912**

General Summary	Total number	Recovered	Improved	Not improved	Not treated	Died
Total medical cases in wards.....	676	237	238	47	15	138
Total nervous cases in wards.....	130	7	69	38	4	12
Total in medical service.....	806	244	307	85	19	140
Total surgical cases in wards.....	754	314	368	25	7	40
Total eye, ear, nose, and throat cases in wards.....	116	79	31	5	.....	1
Total obstetrical and gynecological cases in wards.....	605	392	164	31	2	13
Total number of indoor cases.....	2,281	.....	.....	.....	.....	.....
Total number of new cases in outdoor clinics.....	7,136	.....	.....	.....	.....	.....
Grand total.....	9,417	.....	.....	.....	.....	.....
Total operations in surgical service.....	580	.....	.....	.....	.....	.....
Total operations in gynecological service.....	343	.....	.....	.....	.....	.....
Total operations in eye, ear, nose and throat service.....	115	.....	.....	.....	.....	.....
Average number of indoor patients a day.....	128	.....	.....	.....	.....	.....
Average number of outdoor patients a day.....	56	.....	.....	.....	.....	.....

**SUMMARY OF OUTDOOR CLINICS**

Summary of outdoor clinics	New Cases	Old Cases	Total Consultations
Gynecological cases in outdoor clinics.....	1,183	1,101	2,284
Surgical cases in outdoor clinics.....	2,527	6,525	9,052
Medical cases in outdoor clinics.....	2,846	1,820	4,666
Special cases in outdoor clinics.....	580	857	1,437
Total.....	7,136	10,303	17,439

## ROSTER OF THE SCHOOL OF MEDICINE

FRESHMAN CLASS, 1913-1914

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9 a. m.	Anatomy, B Lab. of Histology, A	Anatomy, A Lab. of Histology, B	Anatomy, B Lab. of Histology, A	Anatomy, A Lab. of Histology, B	Anatomy, B Lab. of Histology, A	
10 a. m.						
11 a. m.	Anatomy, A Lab. of Biology, Histology, and Embryology, B	Anatomy, B Lab. of Biology, Histology, and Embryology, A	Anatomy, A Lab. of Biology, Histology, and Embryology, B	Anatomy, B Lab. of Biology, Histology, and Embryology, A	Anatomy, A Lab. of Histol- ogy, B	Lab. of Pharmacy, 1st half term Physiological Lab., 2nd half term
12 m.						
2 p. m.	Chemical Laboratory			Biology, Histol- ogy, and Embry- ology, one-third term each.	Biology, Histol- ogy, and Embry- ology, one-third term each	Lab. of Pharmacy, 1st half term Physiological Lab., 2nd half term
3 p. m.				Histology	Histology	
4 p. m.	Physiology, 2nd half term		Chemistry	Materia Medica	Materia Medica	
5 p. m.			Physiology, 2nd half term			Chemistry

**ROSTER OF THE SCHOOL OF MEDICINE,**

SOPHOMORE CLASS, 1913-1914

DEPARTMENT OF MEDICINE.

69

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9 a. m.	Anatomy, B Pathol. Lab., A	Anatomy, A Pathol. Lab., B	Anatomy, B Pathol. Lab., A	Anatomy, A Pathol. Lab., B	Pathology	Chemical Laboratory
10 a. m.					Physiology.	
11 a. m.	Anatomy, A and B	Anatomy, B Physiol. Lab., A	Anatomy, A Physiol. Lab., B	Anatomy, B Physiol. Lab., A	Anatomy, A Physiol. Lab., B	Bacteriology, one-third term Lab. of Pathology one-third term
12 m.						
2 p. m.	Bacteriology and Pharmacodynamics, one-third term each [See special roster]	Bacteriology, Physical Diag- nosis, and Phar- maco-dynamics, one-third term each [See special roster]	Bacteriology, Physical Diag- nosis, and Phar- maco-dynamics, one-third term each [See special roster]	Bacteriology, Physical Diag- nosis, and Phar- maco-dynamics, one-third term each [See special roster]	Chemical Laboratory	
3 p. m.						
4 p. m.	Therapeutics	Therapeutics	Physiology	Minor Surgery	Bacteriology, one-third term Lab. of Pathology, one-third term	
5 p. m.	Physiology	Pathology	Chemistry	Chemistry		

## ROSTER OF THE SCHOOL OF MEDICINE,

JUNIOR CLASS 1913-1914

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8 a. m.	Dermatology	Ophthalmology	Diseases of Ear, Nose, and Throat			Demonstrations in Surgical Pathology
9 a. m.	Medical Clinic	Surgical Clinic	Medical Clinic	Surgical Clinic		
10 a. m.	Surgical Clinic	Lab. Clin. Med., Surgical Ward Class, 1 Section each	Lab. Clin. Med., Surgical Ward Class, 1 Section each	Lab. Clin. Med., Surgical Ward Class, 1 Section each		Medical Ward Class
11 a. m.	Special Pathology		Surgical Anatomy, one-half term	Special Pathology		Surgical Ward Class
12 m.	Hygiene, one-half term		Lab. of Pathology, one-half term	Surgical Anatomy		Lab. of Pathology
2 p. m.	Medical Ward Class	Nervous and Mental Diseases	Nervous Diseases Clinic		Surgical Anatomy	
3 p. m.	Demonstration in Obstetrics	Surgery	Medicine			
4 p. m.	Therapeutics	Therapeutics	Medical Ward Class		Dietetics	
5 p. m.	Genito-urinary Diseases	Hygiene one-half term	Obstetrics		Medicine	

**ROSTER OF THE SCHOOL OF MEDICINE,**

SENIOR CLASS, 1913-1914

DEPARTMENT OF MEDICINE.

71

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8 a. m.	Medical Jurisprudence, first two-thirds of term	Dermatology	Ophthalmology	Diseases of Ear, Nose, and Throat	Medical Jurisprudence, first two-thirds of term	Case Taking (Medical Ward) and Laboratory of Clinical Medicine
9 a. m.	Operative Surgical Clinic	Medical Clinic	Operative Surgical Clinic	Medical Clinic	Operative Surgical Clinic	
10 a. m.		Gynecological Clinic	Gynecology	Gynecological Clinic	Case Taking (Medical Ward)	Operative Gynecological Clinic
11 a. m.	Special Pathology				Special Pathology	
12 m.	Outdoor Clinics	Outdoor Clinics	Outdoor Clinics	Outdoor Clinics	Outdoor Clinics	Outdoor Clinics
2 p. m.	Clinic in Otology, etc.		Nervous and Mental Diseases	Clinic in Ophthalmology	Nervous Diseases Clinic	Clinic in Ophthalmology
3 p. m.	Medical Ward Class	Medical Ward Class	Medicine		Demonstration in Obstetrics	
4 p. m.	Gross Morbid Anatomy	Surgery	Gross Morbid Anatomy	Surgery	Operative Surgery	
5 p. m.	Obstetrics	Obstetrics	Pediatrics	Clinic in Otology, etc.	Medicine	

## THE UNIVERSITY OF TEXAS.

## SCHOOL OF MEDICINE: SPECIAL ROSTER FOR CLASS SECTIONS, 1913-1914

THE FRESHMAN CLASS is divided into two sections (A and B) for practical work in the laboratory of anatomy and in the laboratory of biology, histology and embryology. Each section attends periods of two hours in these laboratories, as shown by the major roster.

THE SOPHOMORE CLASS is divided into two sections (A and B) for practical teaching in the laboratories. The major roster shows the arrangement for work in the laboratories of anatomy, pathology, and physiology. For laboratory exercises in bacteriology, physical diagnosis, and pharmaco-dynamics, the following special roster will be followed:

SECTION A			SECTION B		
Bacteriology	Physical Diagnosis	Pharmaco-dynamics	Bacteriology	Physical Diagnosis	Pharmaco-dynamics
Mon. to Sat., incl., two hours daily, Oct. 2 to Dec. 13, 1913	Wed. and Thurs., 2-4 p. m., Jan. 3 to Mar. 6, 1914	Tues., Wed., and Thurs., 2-4 p. m., Mar. 16 to May 10, 1914	Mon. to Sat., incl., two hours daily, Jan. 3 to Mar. 6, 1914	Oct. 2 to Dec. 13, 1913	Tues., Wed., and Thurs., 2-4 p. m., Mar. 16 to May 10, 1914
DEPARTMENT	October 2 to December 6, 1913		December 8, 1913, to March 1, 1914		March 3 to May 13, 1914
Lab. Clinical Medicine, Tues., Thurs., and Sat.	A		B		C
Surgical Ward Classes, Tuesdays, Thursdays, and Saturdays	B		C		A
DEPARTMENT OF	October 2, 1913 to December 6, 1913		December 8, 1913, to March 1, 1914		March 3 to May 9, 1914
Medicine	A		C		B
Surgery	B		A		C
Gynecology	C		B		A

THE JUNIOR CLASS is divided into three sections (A, B, and C) for instruction in the laboratory of clinical medicine and surgical ward classes. When not thus engaged, the members of the class attend clinics in gynecology, as shown by the major roster. The following special roster will be followed:

DEPARTMENT	October 2 to December 6, 1913		December 8, 1913, to March 1, 1914		March 3 to May 13, 1914
Lab. Clinical Medicine, Tues., Thurs., and Sat.	A		B		C
Surgical Ward Classes, Tuesdays, Thursdays, and Saturdays	B		C		A
DEPARTMENT OF	October 2, 1913 to December 6, 1913		December 8, 1913, to March 1, 1914		March 3 to May 9, 1914
Medicine	A		C		B
Surgery	B		A		C
Gynecology	C		B		A

THE SENIOR CLASS is divided into three sections (A, B, and C) for work in the three departments of the outdoor clinics from 12 to 1 p. m. daily, except Sundays, as shown in the subjoined roster:

## TEXT-BOOKS

## First Year

*Anatomy:* Cunningham's *Text-book of Anatomy* (\$6.00); Morris's *Human Anatomy* (\$6.00); Piersol's *Anatomy* (\$7.50); Gray's *Anatomy* (\$6.00); Cunningham's *Dissector's Guide* (\$5.00); Villicher's *Brain and Spinal Cord*, translated by Piersol (\$4.00); Atlases: Spalteholz, translated by Barker (\$10.00); Sobotta and McMurrich.

*Physiology:* Howell's *Text-book* (\$4.00); Stewart's *Manual of Physiology* (6th ed.) (\$5.00); Hammarsten's *Phrysiological Chemistry*, translated by Mandel (\$4.00); Simon's *Physiological Chemistry* (\$3.25); Beddard, Elkins, Hill, Macleod, and Pembrey's *Practical Physiology* (\$5.00).

*Chemistry:* Simon's *Manual of Chemistry* (\$3.00); Garbade's *Laboratory Manual of Inorganic Chemistry* (\$1.50).

*Materia Medica and Therapeutics:* H. C. Wood's *Therapeutics* (\$5.00); Cushny's *Pharmacology and Therapeutics* (\$3.75); *United States Dispensatory* (\$7.00); Thornton's *Prescription Writing* (\$1.25).

*Biology:* McFarland's *General and Medical Biology* (\$1.75); Braun's *Animal Parasites of Man* (\$5.00).

*Histology:* Piersol (\$3.50); Böhm; Davidhoff and Huber (\$3.50); Bailey (\$3.00); Stöhr (\$3.00); Ferguson (\$3.50).

*Lexicon:* Gould's *Student's* (\$2.50); Dorland (\$4.50); Thomas (\$3.00); Gould's *Illustrated* (\$10.00).

*Embryology:* Bailey and Miller (\$4.50); Heissler (\$2.50); McMurrich (\$3.00).

## Second Year

*Anatomy:* Same as above.

*Physiology:* Howell (\$4.00); Stewart (\$5.00); Tigerstedt (\$4.00); Ott (\$3.00); Starling (\$5.00); *American Text-book of Physiology* (\$6.00); Lusk's *The Science of Nutrition* (\$1.75); Beddard's *Practical Physiology* (\$5.00).

*Chemistry:* Simon's *Physiological Chemistry* (\$3.25); Hawk's *Practical Physiological Chemistry* (\$2.50); Autenrieth-Warren's *Detection of Poisons* (\$1.50).

*Therapeutics*: Same as in first year.

*Surgery*: Wharton's *Manual of Minor Surgery* (\$3.00).

*Pathology*: Ziegler's *General Pathology* (10th ed.) (\$5.00); Adami's *General Pathology* (\$6.00); Mallory and Wright's *Pathologic Technique* (\$3.00).

*Bacteriology*: Heinemann's *Laboratory Guide in Bacteriology* (\$1.50); Jordan's *General Bacteriology* (\$3.00); Hiss and Zinsser's *Bacteriology* (\$3.75); McFarland's *Text-book of Pathogenic Bacteria* (\$3.50).

*Lexicon*: Same as in first year.

### Third and Fourth Years

*Anatomy*: Treves's *Surgical Applied Anatomy* (\$2.00); Woolsey (\$5.00); Davis's *Applied Anatomy* (\$6.00).

*Therapeutics*: Same as above; Coblenz's *Treatise on Pharmacy* (\$3.50).

*Dietetics*: Hutchison (\$5.00); Yeo (\$2.50); Thompson (\$5.00).

*Practice of Medicine*: Osler (\$5.50); Tyson (4th ed.) (\$5.50); Strümpell (\$6.00); Anders (\$5.50); Hare (\$6.50); Cabot's *Physical Diagnosis* (\$2.50); Butler's *Diagnostics of Internal Medicine* (\$6.00); Musser's *Medical Diagnosis* (\$6.50); DaCosta's *Physical Diagnosis* (\$3.50); Emerson's *Clinical Diagnosis* (\$5.00); Wood's *Chemical and Microscopical Diagnosis*; Simon's *Clinical Diagnosis* (\$4.00); Van Valzah and Nisbet's *Diseases of the Stomach* (\$3.50).

*Surgery*: Rose and Carless's *Manual of Surgery* (\$5.00); Da Costa's *Modern Surgery* (\$5.00); Treves's *Student's Handbook of Surgical Operations* (\$2.50); Binnie's *Operative Surgery* (\$7.00); Bickham's *Operative Surgery* (\$6.00); Tillman's *Surgery and Surgical Pathology* (\$5.00); Jacobson and Rowland's *The Operations of Surgery*, 2 vols. (\$10.00); Bowlby's *Surgical Pathology* (\$2.00); Berg's *Surgical Diagnosis* (\$3.25); Mummery's *The After-treatment of Surgical Operations* (\$2.00).

*Gynecology*: Ashton (\$6.00); Dudley (\$5.00); Kelly (\$15.00); Crossen (\$6.00).

*Obstetrics*: Williams's *Obstetrics* (\$6.00); Edgar's *Practice of Obstetrics* (\$6.00); Hirst's *Text-book of Obstetrics* (\$5.00); Jewett's *Practice of Obstetrics by American Authors*.

*Pathology*: Same as above; Stengel's *Pathology* (\$5.00); Delafield and Prudden's *Pathology* (\$5.50); Lazarus-Barlow's *Pathologic Anatomy* (\$6.50); *American Text-book of Pathology* (\$7.50).

*Nervous and Mental Diseases*: Church and Peterson's *Nervous and Mental Diseases* (\$5.00); Kraepelin's *Clinical Psychiatry* (\$3.50); Clouston's *Mental Diseases* (\$4.25); Starr's *Organic and Functional Nervous Diseases* (\$6.00); Collins's *Treatment of Nervous Diseases* (\$5.00); Oppenheim's *Nervous Diseases* (\$5.00).

*Diseases of Children*: Holt's *Diseases of Infancy and Childhood* (\$6.00); Kerley's *Treatment of Diseases of Children* (\$5.00); Chapin and Pisek's *Diseases of Infants and Children* (\$4.50); Koplik's *Diseases of Infancy and Childhood* (\$5.00); Thomson's *Clinical Examination and Treatment of Sick Children* (\$3.50).

*Diseases of the Skin*: Stelwagon (4th ed.) (\$6.00); Pusey (\$6.00); Schamberg (\$3.00); Jackson (\$2.75); Walker (\$3.00); Shoemaker (\$5.00); Crocker (\$5.00); Jamison (\$6.00); MacLeod's *Pathology of the Skin* (\$3.75).

*Venereal Diseases*: White and Martin (\$6.00); Keyes (\$6.00); Hayden (\$1.75); Lydston (\$5.00); Morton (\$3.00).

*Ophthalmology*: de Schweinitz's *Diseases of the Eye* (\$5.00); Fox's *Ophthalmology* (\$6.00).

*Diseases of Ear, Nose, and Throat*: Gleason (\$2.50); Bosworth's *Diseases of the Nose and Throat* (\$4.50).

*Medical Jurisprudence*: Reese (\$3.00); Taylor's *Medical Jurisprudence* (\$4.50); Peterson and Haines's *Legal Medicine and Toxicology*, 2 vols. (\$5.00 each).

*Hygiene*: Harrington's *Practical Hygiene* (\$4.25); Chapin's *The Sources and Modes of Infection* (\$3.00); Parke and Kenwood's *Practical Hygiene* (\$3.50); Egbert's *Hygiene and Sanitation* (\$2.25); Bergey's *Principles of Hygiene* (\$3.00); Notter and Firth's *Manual of Hygiene* (\$1.25); Abbot's *Hygiene of the Transmissible Diseases* (\$2.50).

*Lexicon*: Same as in the first year.

NOTE.—In the above list of text-books, the price noted in parenthesis is that of the cheapest named edition in each case, as a rule bound in cloth. In each case only the latest edition should be purchased. Sheep binding will cost about fifty cents or a dollar more than the price quoted. The student is urged to procure for him-

self at least one text-book upon each subject. In some instances choice between several authors is left with the student; in such cases the work preferred is usually named first.

### DEGREES

At the commencement exercises held at the completion of the twenty-first regular session, May 31, 1912, forty-six candidates were granted the degree of Doctor of Medicine, as follows:

John Berwick Anderson	Ivan Edwards Hix
Roger Atkinson	William Harold Holland
Charles Weiser Aydam	Una Howe
Hubert Lee Brown	Vesse Reeves Hurst
Charles Hansford Brownlee	Levy Stephen Johnson
Floyd Elsworth Clark	Samuel Kennedy
Paul James Connor	Robert Bartholow McBride
Willard Richardson Cooke	William Francis McCreight
Homer Donald	John Francis McDonald
Thomas Eugene Dunnam	Arthur Marcus McElhannon
Douglas Saunders Edwards	Joseph McIver
J. G. Ellis, Jr.	Julius McIver
Leland C. Ellis	Arthur Lee Miller
Thomas Freundlich	Edwin Taylor Morris
John William Goode	Jubal Allen Neeley
Roy Thaddeus Goodwin	Simeon Harrison Newman, Jr.
George Malcom Graham	Earl Homer Newton
Joseph Henry Graves	Julius Noll
Reuben Morgan Hargrave	Ellery McRae Outlaw
Otto Frederick Hartke	Benjamin Franklin Smith, Jr.
Robert Albert Hasskarl	Charles William Stephenson
Raymond Fitzhugh Herndon	Cliff Cicero Wilson
Alexander John Hinman	Claud Franklin Young

### HOSPITAL APPOINTMENTS

Upon the results of the final examinations at the close of each session, six resident physicians are selected from the members of the graduating class to serve as internes in the John Sealy Hospital. Occupants of these positions receive their board, laundry, and lodging free, and enjoy superior opportunities for acquiring practical experience in the different departments of medicine and surgery. The term of service is for one year.

Internships in several other hospitals are open to the members of the graduating class of the Medical School. These positions are awarded either according to the class standing in the final examinations in the University, by a special competitive examination, or by special appointment.

The following members of the class which graduated in 1912 have been appointed resident physicians in the hospitals named:

**John Sealy Hospital**

W. R. Cooke	R. F. Goodwin
E. H. Newton	Homer Donald
G. M. Graham	R. A. Hasskarl

**St. Mary's Infirmary, Galveston**

Joseph McIver	C. W. Aydam
	E. M. Outlaw

**St. Joseph's Infirmary, Houston**

B. F. Smith, Jr.	R. F. Herndon
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**Schumpert Memorial Hospital, Shreveport, La.**

J. G. Ellis, Jr.

**Southern Pacific Railway Hospital, Houston**

Thomas Freundlich

**Santa Rosa Infirmary, San Antonio**

J. W. Goode	C. W. Stevenson
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**I. & G. N. Railway Hospital, Palestine**

Roger Atkinson

**Cotton Belt Railway Hospital, Texarkana**

I. E. Hix

**St. Vincent's Sanitarium, Sherman**

H. L. Brown

**Kansas City General Hospital, Kansas City, Mo.**

C. C. Wilson	C. F. Young
	L. S. Johnson

**Hotel Dieu, Beaumont**

A. L. Miller

**Santa Fe Hospital, Temple**

E. T. Morris

## ASSOCIATIONS

### Alumni Association

The Alumni Association of the Medical Department of the University of Texas, as a branch of the General Alumni Association of the University, has been in existence for a number of years, and has as its object the consideration and active prosecution of plans for the betterment of the school in such ways as the alumni are able to devise. It is open to the graduates of any of the schools of the Medical Department. It meets twice a year, once during the last week of the college term, upon a date assigned by its officers, and once during the annual meeting of the State Medical Association.

### Students' Council

The Students' Council is an organization of the students of the institution, having as its object the mutual betterment of its members and the consideration and prosecution of such school matters as may properly be undertaken by the student body. Under its auspices is published *The University Medical*, a monthly medical journal, and it is likewise the basis of organization of such bodies as the Students' Co-operative Book Store and the University Dining Club, although these in their special work act independently of the parent society.

### Young Men's Christian Association

The Y. M. C. A. conducts devotional service every Sunday afternoon during the session. Its object is to better the religious life of the student body. From time to time prominent men from the city are invited to address the meetings.

## EXPENSES

Each student on entering the Department of Medicine is required to pay a matriculation fee of thirty dollars. This fee is paid but once, and is not required after the first term of attendance. If it has been paid in any other department of the University, it is not again required in the Medical Department. Other fees are in the nature of laboratory fees, to pay for material used by the student in

laboratory exercises, or deposits to cover damage to laboratories or the library.

Instead of making separate deposits for each of the laboratories, one general deposit will be required each year to cover all loss, breakage, or damage to apparatus, books, or other equipment of the institution. These deposits are intended to cover the value of apparatus entrusted to each student in the laboratories, or of books withdrawn by the student from the library. At the close of the session, on return of apparatus in good condition, these deposits are returned to the student. Articles of apparatus or books not thus returned are charged against the deposit, their cost to the institution deducted therefrom, and the balance returned to the student. When the value of such broken or unreturned property of the school is greater than the deposit, a special charge is made to replace the article in question.

A library fee of one dollar will be deducted from the library deposit made by each student at the beginning of the session. This will be used to cover the expense of wear and tear of the books and for binding journals, books, etc.

*Students who matriculate after the registration days (September 27, 29, 30, and October 1, 1913), will be required to pay a fine of \$3.00.*

The following list of expenses will indicate the items and total payments required each year, the items of deposit being returnable from the annual total, in accordance with the above explanation:

FIRST YEAR

Matriculation fee (payable once only).....	\$30.00
Laboratory fee in chemistry.....	\$ 5.00
Laboratory fee in physiology.....	5.00
Laboratory fee in anatomy.....	10.00
Laboratory fee in histology (including biology).....	5.00
Laboratory fee in pharmacy.....	5.00
 Total laboratory fees.....	\$30.00
Deposit for library, laboratories, etc. (returnable as explained above).....	15.00
 Total payment upon matriculation.....	\$75.00

## SECOND YEAR

Laboratory fee in chemistry.....	\$ 5.00
Laboratory fee in pathology.....	5.00
Laboratory fee in physiology.....	5.00
Laboratory fee in anatomy.....	10.00
Laboratory fee in bacteriology.....	5.00
 Total laboratory fees.....	 \$30.00
Deposit for library, laboratories, etc. (returnable as explained above).....	20.00
 Total payment upon matriculation.....	 \$50.00

## THIRD YEAR

Laboratory fee in clinical medicine.....	\$ 5.00
Laboratory fee in pathology.....	5.00
Laboratory fee in surgical anatomy.....	5.00
 Total laboratory fees.....	 \$15.00
Deposit for library, laboratories, etc. (returnable as explained above).....	12.50
 Total payment upon matriculation.....	 \$27.50

## FOURTH YEAR

Laboratory fee in operative surgery.....	\$ 5.00
Deposit for library, laboratories, etc. (returnable as explained above).....	5.00
 Total payment upon matriculation.....	 \$10.00

Graduate physicians are permitted to join the class without payment of any fee unless in competition for the degree, except where laboratory courses are undertaken, when the usual fee named above is required for each course as elected.

**Board**

The cost of living will vary with the views of students. Good board, including room, light, and fuel, can be had at prices ranging from \$15.00 to \$20.00 a month.

Women students of medicine and pharmacy are furnished rooms in University Hall at a cost of \$5.00 a month. Women students can get good table board in University Hall at a cost of \$12.00 to \$13.00 a month.

The University Dining Club is an organization of from 130 to 140 members, the object of which is to furnish good meals on the co-operative plan at a minimum cost. At present this club rents a hall two squares from the College, and good table board is furnished at a cost of about \$12.00 a month.

Students are advised to go directly to the College Building, Strand, between Ninth and Tenth Streets, on their arrival in the city. The provost will be on hand, and will take pleasure in furnishing all necessary information and aid to students desiring to obtain board.

Letters requesting information as to the curriculum, or requests for catalogues, should be addressed to President S. E. Mezes, or to Dr. W. S. Carter, Dean, Medical Department of the University of Texas, Galveston, Texas. Business communications should be addressed to Thomas H. Nolan, Provost, Medical Department of the University of Texas, Galveston, Texas.

## SCHOOL OF PHARMACY

### ANNOUNCEMENT FOR THE TWENTY-FIRST ANNUAL SESSION

The School of Pharmacy was inaugurated with the opening of the session of 1893-1894, in connection with the School of Medicine, in the College Building of the Medical Department. The present session began on October 1, 1912, and will close on May 31, 1913. The twenty-first annual session will begin on October 1, 1913, and will continue for eight months.

The instruction is conducted by the teaching staff of the chairs of Materia Medica and Therapeutics, Physiology, Bacteriology, and of Chemistry and Toxicology, in connection with that given the classes in medicine, and by the Professor of Pharmacy and the Demonstrator of Botany and Pharmacy. In addition, instruction is given in organic and pharmaceutical chemistry by the Department of Chemistry.

The accommodations of the school are the same as those of the School of Medicine. (See pages 11-13.) The laboratory of pharmacy occupies the east end of the basement of the College Building, which is well adapted to the purpose, being well lighted and supplied with all the forms of apparatus required for the teaching of this important branch. The chemical laboratory occupies the west end of the basement of the building. It accommodates about two hundred and seventy-five working desks or tables, and is supplied with a full stock of chemicals and apparatus for demonstration and practical work by individual members of the class. The laboratory course in vegetable histology and microscopic pharmacognosy is given in the laboratory of botany, which is equipped with microscopes for teaching this subject by practical exercises to small sections of the class.

### REQUIREMENTS FOR ADMISSION

Men and women are admitted to the School of Pharmacy under equal conditions. The requirements for admission are as follows:

**1. Age**

Candidates are required to be at least 17 years old, and if under 21 years of age, to present written evidence of permission to matriculate from the parent or guardian.

**2. Character**

Candidates are required to present testimonials of good character from two reputable and responsible persons, preferably physicians or pharmacists.

**3. Vaccination**

Each candidate must present evidence of having been vaccinated at a date sufficiently recent to insure immunity against smallpox, or be vaccinated at the time of matriculation.

**4. Scholarship**

Candidates are required to present evidence of having had sufficient preliminary education to undertake the work of the course.

**Admission by Diploma and Certificate**

The following persons are admitted to the School of Pharmacy without examination: (1) Graduates and students from other approved colleges and universities; (2) students from other departments of this University; (3) students and graduates of the Texas Agricultural and Mechanical College; (4) graduates of the Texas state normal schools; (5) persons holding first-grade state teachers' certificates; (6) graduates of affiliated schools.

**Admission by Individual Approval**

Candidates over 21 years of age may be admitted upon personal approval by the dean and the examining committee, provided they furnish satisfactory evidence of having had a preliminary education equivalent to that required for admission by examination, so that they are able to profit by the work undertaken.

**Admission by Examination**

Candidates who do not meet the conditions named above will be required to pass an examination in the following subjects:

1. *English.* Proficiency in orthography, grammar, rhetoric, and

composition will be determined by requiring the candidate to write a short essay upon some assigned subject.

2. *History.* The questions cover general history, the history of the United States, and the history of Texas.

3. *Mathematics.* The questions are given on (a) arithmetic, (b) algebra (through quadratic equations), and (c) plane geometry.

Instead of geometry one year's work in physics, Latin, German, or French may be offered as an equivalent.

#### Admission to Advanced Standing

Students who have attended one full course of instruction in a recognized school of pharmacy may be admitted to the second year of the course upon passing satisfactory examinations upon the physics of pharmacy, processes of manufacture and the chemical constituents of the official inorganic compounds, pharmaceutical preparations of crude drugs, general inorganic chemistry, physics, chemical physiology, bacteriology, *materia medica*, and botany, including vegetable histology.

### GENERAL INFORMATION

#### Registration, Examinations, etc.

The rules governing examinations, class standing, exemptions, conditions, and promotion are the same as in the School of Medicine (see pages 23-24).

*Entrance examinations will be held September 27, 29, and 30, 1913.*

*Students who matriculate after the registration days (September 27 to October 1, 1913) will be required to pay a fine of \$3.00.*

*No regular student will be matriculated after October 15 of any year except by unanimous consent of the faculty.*

*Examinations for the removal of conditions and for advanced standing will be held September 27, 29, and 30. No examination for the removal of conditions will be held after October 1 of any year. Students will not be allowed to attend class work until they have matriculated.*

### PLAN OF INSTRUCTION AND CURRICULUM

The teaching consists of systematic lectures upon pharmacy, *materia medica* and therapeutics, chemistry, physics, physiology,

bacteriology, botany, and prescription reading, writing, and compounding, together with a large amount of laboratory work upon these subjects. The course of study is a graded one, the students being required to pass an examination upon the matter taught in the junior year before they are permitted to enter the senior class. The following curriculum exhibits the arrangement of the work:

### Junior Year

*Major subjects:* (1) Pharmacy, including prescription compounding and dispensing; (2) general chemistry; (3) *materia medica.*

*Minor subjects:* (1) Botany (2) vegetable histology; (3) pharmacognosy (4) chemical physiology; (5) physics; (6) bacteriology.

Laboratory work in (1) pharmacy; (2) prescription compounding and dispensing; (3) general chemistry; (4) vegetable histology and plant analysis; (5) pharmacognosy; (6) chemical physiology; (7) bacteriology.

### Senior Year

*Major subjects:* (1) Pharmacy, including pharmaceutical manufacturing, the purification of drugs, prescription compounding and dispensing; (2) medical chemistry; (3) organic chemistry; (4) the physiological action and uses of drugs.

Laboratory work in (1) pharmacy, including analytical and manufacturing pharmacy; (2) medical chemistry, including the analysis of foods and pharmaceuticals; (3) pharmacognosy.

## DEPARTMENTS OF INSTRUCTION

### PHARMACY

RAOUL RENE DANIEL CLINE, B. S., M. A., PH. G., M. D., *Professor of Pharmacy.*

JOHN C. BUCKNER, PH. G., *Instructor in Pharmacy.*

#### JUNIOR CLASS

##### 1. *Pharmacy.*

Two lectures and seven laboratory hours each week throughout the session.

The lectures deal with the theory and practice of pharmacy,

special emphasis being laid upon the purification and preservation of pharmaceuticals and chemicals and the methods of combining medicines.

The practical work in the laboratory is devoted to the manufacture and purification of medicated waters, medicated solutions, extracts, fluid extracts, tinctures, wines, syrups, infusions, misturas, elixirs, emulsions, glycerites, vinegars, collodions, eye waters, douches, sprays, gargles, pills, suppositories, ointments, plasters, liniments, etc.

During the latter part of the year special instruction is given in the manufacture of toilet preparations and perfumery.

The first three months of this laboratory course are spent in the study of the physics of pharmacy, *i. e.*, the determination of coefficients of solubilities, points of fusion, points of ebullition, points of congelation, the examination and correction of apparatus, such as balances, graduated vessels, thermometers, pipettes, and burettes. Crystallization, fractional distillation, percolation, infusion, and sublimation are studied from a practical standpoint.

## 2. *Prescription Laboratory.*

Eight laboratory hours a week throughout the session.

This course is devoted to the reading, writing, compounding, and dispensing of physicians' prescriptions. Special attention is paid to modes of making medicines sightly, palatable, and permanent.

## SENIOR CLASS

## 3. *Pharmacy.*

Two lectures and eleven laboratory hours a week throughout the session.

These lectures deal with the manufacture, purification, and preservation of chemical salts, acids, alkaloids, alkaloidal salts, resins, resinoids, glucosides, ethers, fruit essences, and synthetics, such as urotropin, sulphonal, piperazine, acetanilid, phenacetin, aspirin, tanalbin, aristol, tannigen, guncotton, terebene, terpin hydrate, terpinol, thyocol, creosote, menthol, iodoform, iodol, chloroform, chloral, monobromated camphor, camphoric acid, ether, acetic ether, nitrous ether, amyl nitrite, salol, salicin, benzol, nitro-benzol, oil of wintergreen, acetone, gallic acid, pyro-

galol, resorcin, beta-nephthol, protargol, sulpho-carbolic acid, sulphocarbolates, etc.

The laboratory course is devoted to the manufacture and purification of the above mentioned substances. Special instruction is given in testing chemicals and pharmaceuticals, and in alkaloidal and glucosidal determinations.

#### 4. *Prescription Laboratory.*

Eight laboratory hours a week throughout the session.

This course is devoted to the reading, writing, compounding, and dispensing of physicians' prescriptions. Special attention is paid to easy and rapid modes of making prescriptions slightly and palatable, and to methods of increasing their potency and absorbability.

## BOTANY

JOHN C. BUCKNER, PH. G., *Lecturer on and Instructor in Botany.*

### JUNIOR CLASS

#### 1. *Botany.*

Two lectures a week for two-thirds of the session.

These lectures bear upon structural, physiological, histological, and taxonomic botany, with special reference to pharmacy.

#### 2. *Field Botany.*

This course consists of two hours a week in the field during the last third of the session.

After a careful study of the typical flora of Galveston Island, excursions to the mainland are made, where a further study of Texas plants is possible. Special attention is paid to those indigenous plants which possess medicinal activity.

#### 3. *Vegetable Histology.*

Two laboratory hours a week throughout the session.

In this course special stress is laid upon the microscopic structure of plants used in medicine. This subject is necessary for an intelligent understanding of the course given to the senior class in powdered drugs.

4. *Pharmacognosy.*

Two laboratory hours weekly throughout the session.

The course includes the recognition of plants and plant parts, the identification of adulterants, a knowledge of the active constituents, their uses, and a classification of all such plants, together with methods best adapted to their preservation; also the identification of volatile and fixed oils and of various pharmaceutical preparations.

## SENIOR CLASS

5. *Pharmacognosy.*

Five hours a week throughout the session.

This course is devoted to a study of the crystallography of alkaloids and chemicals under the microscope. The microscopic appearance of powdered drugs is dealt with, looking mainly to the detection of adulterants and to the identification of substances examined. The second half of the session is devoted to testing for all the different active ingredients found in the tissues of medicinal plants. The course is given in the laboratory of vegetable histology.

## CHEMISTRY

GEORGE FAY GRACEY, B. S., M. D., *Professor of Chemistry and Toxicology.*

WALTER T. GARBAGE, B. S., PH. G., *Adjunct Professor of Chemistry.*

1. *General Inorganic Chemistry.*

Junior year. Two lectures and four laboratory hours a week throughout the session.

This course comprises the elements of chemistry, the fundamental laws of chemical action, the more important properties of the elements and their principal compounds, the tests for the acids and metals, and an introduction to qualitative analysis.

2. *Physics.*

Junior year. Two lectures a week during the first half of the session.

This course is designed to acquaint the student with the under-

lying principles of elementary physics, particularly the phenomena of heat, light, and electricity. Those subjects having special bearing upon the work in pharmacy are thoroughly gone into, and all lectures are fully illustrated with experiments.

### 3. *Medical and Analytical Chemistry.*

Senior year. Two lectures and four laboratory hours each week during the session.

This course comprises a thoroughly practical drill in the qualitative analysis of mixtures of unknowns; in the analysis of potable and mineral waters; analysis of milk; analysis of urine; the principles of gravimetric and volumetric analysis; and the processes of detecting mineral and vegetable poisons in complex organic mixtures.

### 4. *Organic Chemistry.*

Two lectures a week throughout the session.

These lectures treat of the fundamental principles and theories of organic chemistry, the general methods of preparation and synthesis of organic compounds, with a study of their properties, special attention being given to those compounds which are of importance in medicine.

### 5. *Pharmaceutical Chemical Analysis.*

Five laboratory hours a week throughout the session.

This course includes the gravimetric and volumetric analysis of chemicals and pharmaceuticals; the estimation of alcohol in beverages and pharmaceutical preparations; and the analysis of foods, fixed and volatile oils, giving special attention to the detection of preservatives and adulterants.

The chemical laboratory occupies the greater portion of the lower floor of the College Building and contains 275 working tables, each table being supplied with complete equipment of apparatus and reagents for individual work by each student. The laboratory is well equipped for the purpose of teaching the subject, and the practical work is done by each student.

**MATERIA MEDICA AND THERAPEUTICS**

EDWARD RANDALL, M. D., *Professor of Materia Medica and Therapeutics.*

**1. *Materia Medica.***

Junior year. Two lectures or recitations a week for nineteen weeks.

These lectures include a general description and classification of crude drugs, their physical, chemical, and medical properties, the preparations, doses, tests, antidotes, toxicology, etc.

The laboratory of pharmacy contains a complete cabinet of drugs, active principles, etc., for use by each student in the practical study of *materia medica* as the different subjects are discussed during the term.

**2. *Therapeutics.***

Senior year. Two lectures weekly throughout the session.

In this course the therapeutical classification of remedies and their therapeutical and chemical compatibilities are considered. Prescription writing, with the dosage, in both the metric and the apothecary systems, is duly dwelt upon. It is the aim of the course to qualify the student for the work of the pharmacist, without making a prescribing doctor of him.

**BACTERIOLOGY**

JAMES PERSONS SIMONDS, B. A., M. D., *Professor of Preventive Medicine and Bacteriology.*

GEORGE CYRUS KINDLEY, B. S., M. D., *Instructor in Bacteriology.*

ERNEST WINFRED BREIHAN, M. S., *Student Assistant in Bacteriology.*

Junior year. One lecture or recitation and seven laboratory hours a week for the last third of the session.

This course includes the preparation of the ordinary forms of culture media; the study of the various methods of sterilization and disinfection; staining and mounting bacteria; isolation in pure culture; the cultural characters and methods of identification of the more common forms of bacteria; and the practical bacteriological examinations of air, water, milk, etc.

## PHYSIOLOGY

WILLIAM SPENCER CARTER, M. D., *Professor of Physiology.*  
AUGUST J. STREIT, M. D., *Instructor in Physiology.*

1. Junior year. Two lectures and five laboratory hours a week for one-half of the session.

This is a course in chemical physiology, including the chemical properties of the organic foodstuffs and the methods of separating them; the chemical changes which take place in digestion; the composition of foods, etc.

2. Senior year. Three lectures a week for two-thirds of the session.

This course covers the circulation of the blood, respiration, metabolism, secretions, and excretions. Some knowledge of these physiological processes is necessary for an understanding of the action and therapeutic uses of drugs.

## LIBRARY AND READING-ROOM

The library and reading-room of the institution are open to the classes in pharmacy on the same conditions as to students in medicine. The most important works bearing upon the subjects taught in the course are upon the shelves, and the current and back numbers of the best known pharmaceutical journals are available in the reading-room for consultation.

## SCHOLARSHIP

In 1889 the Texas State Pharmaceutical Association established a scholarship in the School of Pharmacy of the University of Texas. When first established, the sum of \$150 was given, and the selection of the beneficiary was made by a committee approved by the president of the association. In 1900 the sum was increased to \$200, and has since remained the same. In 1901, the selection of the holder of the scholarship was left to the Professor of Pharmacy, his action in the matter being ratified by the executive committee of the association. The scholarship is held at present by H. H. Sams, of the senior class.

## ROSTER OF THE SCHOOL OF PHARMACY

JUNIOR CLASS, 1913-1914

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8 a. m.	Physics, first half session		Physics, first half session		Bacteriology, last term	Prescription, <sup>1</sup> Reading, <sup>2</sup> Writing, and Compounding
9 a. m.	Pharmacy	Botany		Botany	Pharmacy	Physiological Laboratory, second half session
10 a. m.	Prescription Reading, Writing, and Compounding	Pharmaceutical Laboratory				
11 a. m.	Field Botany, last term					
12 m.						
2 p. m.	Chemical Laboratory		Prescription Compounding, first two-thirds of session	Chemical Laboratory		
3 p. m.			<u>Bacteriology,</u> 2-5 p. m., last term			Physiological Laboratory, 2-5 p. m., second half session
4 p. m.	Physiology second half session		Chemistry, first half session	Materia Medica	Materia Medica	
5 p. m.	Chemistry second half session		Physiology, second half session	Bacteriology, 4-6 p. m., last term	Prescription Com- pounding, two- thirds session	Chemistry Bacteriology, 4-6 p. m., last term

**ROSTER OF THE SCHOOL OF PHARMACY**  
 SENIOR CLASS, 1913-1914

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9 a. m.		Pharmacy	Organic Chemistry	Pharmacy	Organic Chemistry	Chemical Laboratory
10 a. m.						
11 a. m.	Pharmacognosy	Pharmaceutical Laboratory	Laboratory of Pharmacy	Alkaloidal Testing	Prescription Laboratory	
12 m.						
2 p. m.	Prescription Compounding and Dispensing		Prescription Reading, Writing, and Compounding	Prescription and Compounding and Dispensing		Chemical Laboratory
3 p. m.						
4 p. m.	Therapeutics	Therapeutics	Physiology			Pharmaceutical Laboratory
5 p. m.	Physiology		Chemistry	Chemistry		

## TEXT-BOOKS

## First Year

*Pharmacy*: Arny's *Principles of Pharmacy* (\$6.00); Remington's *Pharmacy* (\$6.00); *United States Pharmacopeia* (\$2.50).

*Chemistry*: Simon's *Manual of Chemistry* (\$3.00); Garbade's *Manual of Inorganic Chemistry* (\$1.50).

*Physics*: Page's *Elements of Physics* (\$1.25); Carhart and Chute's *Physics* (\$1.35).

*Botany*: Rusby's *Manual of Botany* (\$2.50); Gray's *Field Botany* (\$1.80).

*Materia Medica*: H. C. Wood (\$6.00); *United States Dispensatory* (\$7.00).

*Prescription Work*: Scoville's *The Art of Compounding* (\$2.50).

*Pharmacognosy*: Culbreth's *Materia Medica*.

*Physiology*: Halliburton.

*Bacteriology*: Jordan's *General Bacteriology* (\$3.00).

## Second Year

*Chemistry*: Simon's *Physiological Chemistry* (\$3.25); Hawk's *Practical Physiological Chemistry* (\$2.50); Autenrieth-Warren's *Detection of Poisons* (\$1.50); Leach's *Analysis of Foods* (\$7.50); Remsen's *Organic Chemistry* (\$1.20).

*Pharmacognosy*: Kraemer (\$5.00).

*Volumetric Analysis*: Coblenz and Vorisek (\$1.75).

*Physiology*: Halliburton.

## DEGREES CONFERRED IN 1912

The degree of Graduate in Pharmacy (Ph. G.) was conferred at the commencement held May 31, 1912, on twelve candidates, as follows:

Robert Courtney Carter  
Eustace Cernosek  
Thomas Malcom Dobbins  
William Turner Glass  
Marcus Alexander Halsey  
Claude Earnest Hill

William Adolph Menke  
Charles Parks, Jr.  
Mary Lee Powell  
Henry Michael Ryan  
Samuel Sharp Templin  
Paul H. Van Pelt

## ASSOCIATIONS

The graduates of the School of Pharmacy are eligible to membership in the Alumni Association of the Medical Department of the University of Texas. A Pharmaceutical Association, composed of the students of this school alone, has been formed for the study of essentially pharmaceutical problems. The students of pharmacy are eligible to the Students' Council and other student bodies of the Department.

## EXPENSES

Each student on entering the School of Pharmacy is required to pay a University matriculation fee of thirty dollars.

This fee is paid but once. If it has been paid in any other department of the University, it is not again required in the Medical Department. Other fees are in the nature of laboratory fees of five or ten dollars for each laboratory attended (to pay for material used by the student in laboratory exercises), and laboratory and library deposits. These deposits are intended to cover the value of apparatus entrusted for use to each student in the laboratories, or of books withdrawn from the library. At the close of the term, on the return of apparatus and books in good condition, these deposits are returned to the student. Articles of apparatus or books not thus returned are charged against these deposits, their cost value deducted therefrom, and the balance returned to the student. When the value of such broken or unreturned property of the school is greater than the deposit, a special charge is made to replace the article in question. The list of expenses given below will indicate the individual items and the total payments required each year, the items of deposit being returnable from the annual total in accordance with the above explanation.

Instead of requiring separate deposits in each of the laboratories, the authorities will require one deposit to be made by each student to cover breakage, loss, or damage to apparatus, books, or other equipment.

A library fee of one dollar is deducted from the library deposit made by each student at the beginning of the session. This will be used to cover the expense of wear and tear of the books, and for binding journals, books, etc..

*Students who matriculate after the registration days (September*

*27, 29, and 30, and October 1, 1913) will be required to pay a fine of \$3.00.*

JUNIOR YEAR

Matriculation fee.....	\$30.00
Laboratory fee in chemistry.....	\$ 5.00
Laboratory fee in pharmacy.....	10.00
Laboratory fee in chemical physiology.....	5.00
Laboratory fee in bacteriology.....	5.00
Total laboratory fees.....	25.00
Deposit for library, laboratories, etc. (returnable as explained above).....	20.00
Total payable upon matriculation.....	\$75.00

SENIOR YEAR

Laboratory fee in chemistry.....	\$ 5.00
Laboratory fee in pharmacy.....	10.00
Total laboratory fees.....	\$15.00
Deposit for library, laboratories, etc. (returnable as explained above).....	15.00
Total payable upon matriculation.....	\$30.00

Board

Good board, with fuel and lights, can be had at prices ranging from \$15.00 to \$20.00 a month.

Students are advised to go direct to the College Building, on Strand, between Ninth and Tenth Streets, on their arrival in the city, where the Provost of the Medical Department will be found. He will take pleasure in furnishing all necessary information and aid in obtaining board without delay.

Letters requesting information or catalogue should be addressed to President S. E. Mezes or to Dr. Wm. S. Carter, Dean, Medical Department of the University of Texas, Galveston, Texas. Business communications should be addressed to Thomas H. Nolan, Provost, Medical Department of the University of Texas, Galveston, Texas.

## SCHOOL OF NURSING

### STAFF OF INSTRUCTORS AND OTHER OFFICERS

ETHEL D'ARCY CLAY, R. N., *Superintendent, Clinical Instructor in Nursing.*

#### Lecturers

JAMES EDWIN THOMPSON, F. R. C. S. (ENG.), *Surgical Nursing.*

MARVIN LEE GRAVES, M. D., *Medical Nursing; Nervous and Mental Diseases.*

RAOUL RENE DANIEL CLINE, M. D., *Materia Medica.*

WILLIAM SPENCER CARTER, M. D., *Physiology.*

ALLEN G. HEARD, M. D., *Diseases of Children; Clinical Pathology.*

SETH MABRY MORRIS, M. D., *Diseases of the Eye, Ear, Nose, and Throat.*

HOWARD RUSH DUDGEON, M. D., *Surgery.*

WILLIAM KEILLER, F. R. C. S. (ED.), *Anatomy.*

GEORGE HENDERSON LEE, M. D., *Obstetrics and Gynecology.*

JAMES PERSONS SIMONDS, M. D., *Hygiene.*

H. O. SAPPINGTON, M. D., *Obstetrics and Gynecology.*

AUGUST J. STREIT, M. D., *Physiology and Dietetics.*

HARRY O. KNIGHT, M. D., *Anatomy.*

THAD SHAW, M. D., *Fever Nursing.*

#### Committee on Instruction

ETHEL D'ARCY CLAY, R. N., *ex-officio.*

From the faculty of the School of Medicine:

JAMES EDWIN THOMPSON, F. R. C. S.

MARVIN LEE GRAVES, M. D.

WILLIAM SPENCER CARTER, M. D., *ex-officio.*

#### Advisory Board of Lady Managers

MRS. EDWARD RANDALL, *President.*

MRS. GEORGE SEALY

MRS. H. KEMPNER

MRS. GEORGE E. MANN

MISS MARY DAVIS

MRS. L. FELLMAN

MRS. J. WHARTON TERRY

MRS. J. E. THOMPSON

MRS. H. L. ZIEGLER

MRS. R. WAVERLEY SMITH

MRS. FREDERICK SCHNEIDER

MRS. T. B. ALLEN

MRS. R. B. HAWLEY

MRS. D. E. WALLIS

MRS. WATERS DAVIS, JR.

### GENERAL INFORMATION

The School of Nursing was established as a successor to the "John Sealy Hospital Training School for Nurses." The latter training school was supported and managed by a board of ladies resident in the city of Galveston, as a public charity, and, while well accomplishing its purpose, it had grown in the course of years to be a tax upon the generosity and attention of those who had become interested in it. In order to save it from going out of existence, therefore, and at the same time to extend the opportunity for medical instruction to the classes of nurses, the regents of the University, in 1897, created the School of Nursing as one of the regular schools of the Medical Department of the University, and the pupil nurses are recognized as students of this branch of the Medical Department. The regents of the University are responsible for the instruction of the student nurses in all branches, and have placed the management of the curriculum in the hands of a committee composed of the Clinical Instructor in Nursing, the Dean, and two members elected annually from the faculty of medicine by the members of the faculty. The committee has arranged a curriculum and appointed, from the members of the teaching staff of the School of Medicine, the special instructors in each branch.

After having completed the course of training satisfactorily, if found worthy in every particular, the pupil nurses are, upon recommendation of the medical faculty, given certificates of proficiency as trained nurses by the University of Texas and the president of the Board of Managers, or other authorized officials on the part of the management of the John Sealy Hospital.

In the establishment of the School of Nursing, the regents of the University have definitely delegated to the Board of Hospital Managers all governmental supervision of the school not directly concerning the instruction of the classes. All questions of admission to classes, rules, regulations governing the duties and privileges of nurses, matters concerning the moral and physical welfare of pupil nurses, support of individual nurses, and matters of penalty or dismissal, are determined by the Board of Hospital Managers.

An Advisory Board of Lady Managers has been created, their duties being to aid the Superintendent of Nurses in questions of government when required, and to advise the Board of Hospital

Managers in questions involving the care of the nurses. The members of this board act as visiting committees, and endeavor to keep in touch with the students and to aid them when possible.

### ANNOUNCEMENT

It is now recognized that two years do not allow sufficient time for properly preparing students for the numerous and responsible duties of nursing. Following the example of other institutions of high standing, the University of Texas has extended the course of training in the School of Nursing from two to three years. This change went into effect October 1, 1907.

For the first four months of the course, candidates who have been approved by the superintendent of the training school will be admitted on probation. At the expiration of this time, if the probationer proves to be capable of continuing the course satisfactorily, she will be admitted to full standing and enrolled as a pupil nurse.

During the period of probation the probationer receives board, lodging, and laundry free. After full admission into the School of Nursing, in return for her services in the wards of the hospital, the pupil nurse receives board, lodging, laundry, and uniforms free; and, in addition, an allowance of five dollars a month during the remainder of the period of training is made by the Board of Managers to defray the necessary expenses for text-books, etc.

### ADMISSION

Those wishing to obtain the course of instruction must apply to the Superintendent of Nurses, John Sealy Hospital, Galveston, upon whose approval they will be received into the school on probation. The age of candidates must be from twenty to thirty-five years. The candidate should send, with answers to the questions sent to her, two letters testifying to her good moral character, and one from her physician stating that she is in sound health. She should be of at least average height and physique.

Within the first week of probation the applicant will be examined in reading, penmanship, simple arithmetic, and English. Candidates must be able to read aloud well, to write legibly and accurately from dictation, and to understand arithmetic as far as fractions and percentage. While this is the minimum educational requirement, women of superior education are preferred.

The superintendent has full power to decide as to the fitness of a probationist for the work and as to the desirability of her retention to the end of the period of probation. She can suspend any nurse for cause at any time, and, with the formal approval of the Board of Hospital Managers, dismiss a nurse for serious misconduct or inefficiency.

Vacancies in the School of Nursing will be filled on the first of June of each year, or as soon thereafter as possible. It is advisable for pupil nurses to enter the school before October 1, as the regular courses of instruction are given during the academic year, from October 1 to June 1. Vacancies arising at other times will be filled as they occur.

Candidates who prove satisfactory will be accepted as pupil nurses after signing an agreement to remain in the service for the length of time required by the rules of the school; to submit to the control of the superintendent; and to obey the rules of the hospital and school. They will reside in the Home for Nurses, adjacent to the hospital, and serve the first year as assistants in any or all of the wards of the hospital.

They will be expected to perform any duty assigned to them by the superintendent, and to act as nurses in any of the wards or in any department of the hospital. They are required during the months of training to wear the dress and shoes prescribed for the institution.

The day nurses are on duty from 7 a. m. to 7 p. m.; the night nurses from 7 p. m. to 7 a. m. Reasonable time is given for meals, exercise, study, and rest. One afternoon each week, and additional time on Sundays, will be allowed to each pupil nurse.

A vacation of two weeks will be allowed each year.

In case of sickness, pupils will be gratuitously cared for in their rooms or in the hospital, but the time lost must be made up.

Blanks containing questions required to be answered by the candidates for the information of the Superintendent of Nurses will be mailed upon application.

#### **COURSE OF TRAINING AND INSTRUCTION**

The course of instruction is a graded one, extending over three sessions. The plan of instruction includes systematic lectures, demonstrations, and actual bedside practice of the principles taught;

and from time to time, the pupils are required to present papers upon various themes connected with the work.

The course is arranged as follows:

### Junior Year

Systematic lectures upon (1) anatomy; (2) physiology; (3) *materia medica*, including the dosage and uses of drugs, the antidote of poisons, etc.; (4) nursing of medical cases (fever nursing); (5) the ethics of nursing, including the duties of nurses in caring for patients, both in hospitals and in private homes.

Practical instruction in ward-work, bed-making, the care of patients, including toilet, feeding, attention to excretions, application of lotions, stupes, poultices, blisters, and the care of the same, prevention and treatment of bed-sores, cupping and leeching, clinical observations, symptoms and the records of temperature, pulse and respiration, baths, enemata, ventilation, disinfection, etc.

### Intermediate Year

Systematic lectures upon (1) surgical nursing; (2) medical nursing; (3) obstetrics; (4) gynecology; (5) dietetics.

Practical instruction in surgical nursing, including surgical technique; preparation for operations, both in hospitals and in homes; the care of patients after operations; practical experience of three months under a permanent head nurse in the operating room; obstetrical nursing; gynecological nursing; dietetics; the preparation of foods for artificial feeding and for various diseased conditions.

### Senior Year

Lectures upon (1) the nursing of infants and children; (2) hygiene; (3) nursing of nervous and mental diseases; (4) eye cases; (5) ear, nose, and throat cases; (6) hospital management and administration; (7) ethics of nursing, with special reference to the nursing of private patients; (8) massage and Swedish movements.

Practical instruction in infant feeding; the nursing of special cases, including mental and nervous diseases, and diseases of the eye, ear, nose, and throat; urine analysis; massage and Swedish movements; ward management and hospital administration.

During the larger part of the senior year the members of the class will be placed in charge of the different wards and of the private rooms of the hospital in rotation. Opportunity is thus afforded for acquiring valuable training and experience in matters of hospital management. Those who display administrative ability and desire to fit themselves for institutional work will be given further instruction in the methods of hospital administration.

The requirements for promotion and graduation are essentially the same as in the School of Medicine. Final examinations are held upon all subjects taught, and the pupil is also graded for the quality of ward work which she has done. Most of the instruction above outlined is given in the hospital and in the Nurses' Home. The practical clinical instruction is given in the wards of the hospital. Some of the lectures and demonstrations are given in the Medical College.

#### TEXT-BOOKS

- Anatomy and Physiology*: Kimber.  
*Primary Nursing*: McIsaac.  
*General Nursing*: Hampton.  
*Diet in Sickness and Health*: Winthrop.  
*Massage and Swedish Movements*: Ostrom.  
*Materia Medica*: Dock.  
*Care of the Baby*: Griffith.  
*Surgical Nursing*: Stoney's *Surgical Technique*.  
*Fever Nursing*: Wilson.  
*Nervous Diseases and the Insane*: Mills.  
*Medical Dictionary*: Gould.  
*Obstetrics*: DeLee.  
*Gynecology*: DeLee.

## ROSTER OF WARD DUTIES AND INSTRUCTION

JUNIOR CLASS OF NURSES, 1913-1914

Hours	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7 a. m.	Ward	Ward	Ward	Ward	Ward	Ward	Ward
8	Ward	Ward	Ward	Ward	Ward	Ward	Ward
9	Ward	Ward	Ward	Ward	Ward	Ward	Ward
10	Ward	Ward	Ward	Ward	Ward	Ward	Ward
11	Ward	Ward	Ward	Ward	Ward	Ward	Ward
12 m.	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner
1 p. m.	Ward	Ward	Ward	Ward	Ward	Ward	Ward
2	Ward	Ward	Ward	Ward	Ward	Ward	Ward
3	Ward	Clinical Instruction	Physiology —H	Clinical Instruction—H	Ward	Ward	Ward
4	Ward	Ward	Materia Medica—H	Ward	Anatomy—C	Medical Nursing—H	Ward
5	Supper	Supper	Supper	Supper	Supper	Supper	Supper
6	Ward	Ward	Ward	Ward	Ward	Ward	Ward

NOTE.—In the above roster, when not noted, it is to be understood that lectures begin with the opening of the fall term of the Medical Department, and continue until the course of instruction is finished, or to the end of the term. H indicates the John Sealy Hospital as the place of the lectures; C, the College Building.

**ROSTER OF WARD DUTIES AND INSTRUCTION**  
**INTERMEDIATE CLASS OF NURSES 1913-1914**

## ROSTER OF WARD DUTIES AND INSTRUCTION

## SENIOR CLASS OF NURSES, 1913-1914

## DEPARTMENT OF MEDICINE.

**GRADUATES IN NURSING**

At the commencement exercises held May 31, 1912, the certificate of proficiency was awarded to following members of the graduating class in the School of Nursing:

Isola Appling	Ella McCord
W. Dean Bivens	Sylvia Marie Tellier
Leutie Locke Cooper	Myrtle Mae Thompson
Grace Freeman	Hattie Van Pelt
Mary Genevieve Hutchinson	Willie Aletha Wilson

**NOTE**

Letters requesting information as to curriculum of the School of Nursing, or applications for admission to the class, should be addressed to the Superintendent of Nurses, John Sealy Hospital, Galveston, Texas.

**CATALOGUE OF STUDENTS IN THE MEDICAL  
DEPARTMENT, 1912-1913**

**SCHOOL OF MEDICINE**

**Freshmen**

Adair, Munsell Lee.....	Marshall.
Aulick, Roscoe Ratcliffe.....	Augusta, Okla.
Balkansky, Simeon Evonoff.....	Galveston.
Bunkley, Thelbert Forney.....	Seymour.
B. A., Baylor University.	
Bush, Howard Marion.....	Lytle.
Cade, William H.....	San Antonio.
Carter, Wilbur.....	Whitewright.
Champion, Albert Nicholas.....	Luling.
Cook, Thomas Eugene.....	Belton.
Davis, Charles Harold.....	Arlington.
Davis, Hugh Jefferson.....	Austin.
Embry, Ruby Kathleen.....	Ballinger.
B. A., University of Texas, 1912.	
French, Elmo Dial.....	Fort Worth.
B. A., Washington and Lee University.	
Giles, Roy Green.....	Belton.
B. A., Southwestern University.	
Glass, Thomas William.....	Forreston.
Hall, Charles Mitchell.....	Abilene.
Hastings, Miles Edgar.....	Union.
Hedrick, Thomas Wade, Jr.....	Wheelock.
Herndon, Robert L.....	Houston.
Hodde, Frederick Henry.....	Burton.
Hudson, William Lee.....	Belton.
Jenkins, Julius Luther.....	Normangee.
Jones, George Mitchell.....	Smithville.
B. S., Agricultural and Mechanical College of Texas.	
Kurth, Robert Lee.....	Lufkin.
B. A., Southwestern University.	
Lattimore, John Edens.....	Waco.
B. A., Baylor University.	
Lowry, William Price.....	Decatur.
B. A., Decatur Baptist College.	
McConnell, Seth Anderson.....	Franklin.
McCready, Elmer Thomas.....	Summit Hill, Pa.
B. A., M. A., Dickinson College.	
Mebane, Douglas Hamilton.....	Alvin.
B. A., Austin College.	
Mills, Edmund Dumas.....	Somerville.
B. A., Austin College.	
Nicholson, Lucian.....	Whitewright.
B. S., Grayson College.	

Nowierski, Leon Wencelslaw	Yorktown.
Pittman, John William	Belton.
Potthast, Adolf Hans	Weimar.
	B. S., Agricultural and Mechanical College of Texas.
Pressley, Thomas Alexander	San Antonio.
Ramsdell, Marshall A	Austin.
Rice, Estill Lee	Polytechnic.
Roberts, Aaron Lamar	Ennis.
	B. A., Trinity University.
Rogers, Lieuen Moss	Galveston.
	Ph. G., University of Texas, 1911.
Schwarz, Edwin Grover	Lockhart.
Scott, Bradford Ripley Alden	San Antonio.
Simpson, Robert Keith	Nacogdoches.
Smith, Hester Brewer	Dallas.
Smith, Oliver Abraham	Mansfield.
Spilman, Edwin Badgley	Claude.
Starnes, Mert Hawkins	Georgetown.
Stephen, Edward Marion Frank	Dublin.
Stephens, Jamie D	Temple.
Streit, Paul Henry	Dallas.
Touchstone, Alexander Green	Braxton, Miss.
Venable, Douglas Randolph	Sherman.
	B. A., Austin College.
Weeks, Mildred Washington	Austin.
White, John Lively	Waco.
Wiemers, Wesley J. C	Fredericksburg.
York, Dessie Atthill	Del Rio.
Zeiss, Robert Fred	Brenham.

### Sophomores

Bailey, Cornelius Oliver	Quinlan.
Blevins, James Daniel	Beaumont.
Bose, Edda von	San Antonio.
Breuer, Miles John	Houston.
	B. A. and M. A., University of Texas, 1911.
Calaway, Frank Otis	Bowie.
Chapman, Lawrence Evans	Ennis.
	B. A., Trinity University.
Clawater, Earl William	Plains.
Dyer, R. Eugene	Port Arthur.
	B. A., Kenyon College.
Fay, Scott Stuart	Wilsey, Kan.
	B. S., Agricultural College of Kansas; M. A., University of Nebraska.
Gerson, Gustave Raphael	Houston.
Glover, Milton Hall	Paducah.
Gough, Homer Wilford	Galveston.
Graham, Emmett L	McGregor.

Hale, Robert Alexander	Waco.
Kitowski, Casimir B.	Chapel Hill.
Kopecky, Joseph	Taiton.
Lightfoot, Wooten	Austin.
	B. A., University of Texas, 1911.
Lowry, Robert Kaskie	Temple.
Lutner, Thomas Richard	Cameron.
Marek, Emil Henry	Brenham.
	Ph. G., University of Texas, 1908.
Neighbors, Allen Huddleston	Waelder.
	B. S., Agricultural and Mechanical College of Texas.
Parke, Joseph N.	Kyle.
Penfield, Perle	San Antonio.
	B. S., University of Texas, 1905.
Potthast, Otto James	Weimar.
Putnam, Lincoln Frank	Houston.
Ramsay, William Edward	Houston.
Reid, James William	Calvert.
Stone, Charles Turner	Caldwell.
	B. A., Southwestern University.
Venable, Sidney Carrington	Sherman.
	B. A., Austin College.
Warren, Walter Marvin	Center.
Whisenant, John Ross	Dallas.

## Juniors

Beall, John Renshaw	Decatur.
B. A., University of Texas, 1911.	
Breihan, Ernest Winfred	Bartlett.
B. S., University of Texas, 1905, and M. S., 1907.	
Bursey, Ernest Harmon	Fort Worth.
B. A., University of Texas, 1912.	
Butler, May Angie	Stockdale.
B. A., University of Texas, 1909.	
Cook, Clara Cathright	Hearne.
Cooper, Jackson Stewart	Abilene.
Crockett, Roy Hassell	Austin.
B. A., University of Texas, 1910.	
Fowler, Clarence Fred	Valley Springs.
Gray, Charles Washington	Comanche.
Guy, William Hiliary	Carbon.
Jones, Ross	Waco.
Ph. B., Baylor University.	
Keiller, Violet Hannah	Galveston.
B. A., Bryn Mawr College.	
Maffett, Minnie Lee	Groesbeck.
Martin, Wallace Marsh	Galveston.
B. A., University of Texas, 1912.	
Miller, Clarence Ross	San Angelo.

Newton, Frank Hawley.....	Hubbard.
B. A., University of Texas, 1907.	
Powell, Eugene Vernon.....	Cleburne.
Reading, William Boyd.....	Galveston.
Shipman, Mary Lou.....	Weldon.
Starnes, William Love.....	Georgetown.
B. A., M. A., Southwestern University.	
Story, Fred Lee.....	Ennis.
B. S., Southwestern University.	
Vaughan, Thomas Davis.....	Bertram.
Williams, David Cash.....	Commerce.

### Seniors

Aves, Delano Richard.....	Seabrook.
Braden, Albert Henry.....	Bernardo.
Briggs, Harry Arthur.....	Houston.
Clarke, Jared Ellison, Jr.....	Houston.
Collins, Charles Ernest.....	Alvin.
Cooke, Lane Butler.....	Keene.
Cover, Ellen Charlotte.....	San Antonio.
Davis, Raleigh Lester.....	Big Spring.
Dodson, William Milton.....	Paint Rock.
Frey, Conrad.....	San Antonio.
Garnett, Walter Lowry.....	Brownwood.
B. A., University of Texas, 1907.	
Geer, Robert Herschel.....	Coleman.
Haggard, Frank Nichols.....	Hillsboro.
Howser, John Paul.....	Galveston.
B. S., University of Texas, 1904.	
Johnson, Jesse Brelan.....	Cookville.
Karchmer, Ray.....	Denison.
Kass, Joseph.....	Wietka, Russia.
Kavanaugh, Bascom.....	Fairy.
Kreisle, Mathew Ferdinand.....	Austin.
Levy, Moise Dreyfus.....	Natchitoches, La.
Lipscomb, William N.....	Crockett.
Lowe, Patrick Otis.....	Laneville.
McAdams, Frances May.....	Galveston.
B. S., University of Texas, 1908.	
McAdams, Rosalie.....	Galveston.
Ph. G., University of Texas, 1909.	
McDaniel, Adolphus Alfred.....	Mineola.
B. A., Agricultural and Mechanical College of Texas.	
Munroe, Roy McLeod.....	Milford.
Nichols, Cranz.....	Luling.
Ph. G., University of Texas, 1908.	
O'Neill, Owen Roe.....	Clarksville.
Phillips, John Henry.....	Galveston.
Raetzsch, Carl William.....	Yoakum.

Ramsdell, Robert LeRoy.....	Austin.
C. E., University of Texas, 1908.	
Robertson, Joseph Jordan.....	Corpus Christi.
Seng, Magnus Ignatius.....	San Antonio.
Spangler, Davis.....	Bonham.
Surmann, Arnold Charles.....	New Ulm.
Taylor, Summerfield Moon.....	Austin.
Vineyard, Roy Leonard.....	Amarillo.
Wall, Dick Parker.....	Honey Grove.
Webb, John Gaillard.....	Galveston.
Weller, Clarence William.....	Austin.
B. A., University of Texas, 1905.	
Williams, Hillary Wingo.....	Fort Worth.
Wright, Rennie.....	Randolph,
Wright, William Carver.....	Farmersville.

## SCHOOL OF PHARMACY

## Juniors

Appelbaum, Ben Louis.....	Houston.
Barkley, Henry Marvin.....	Ennis.
Bartlett, John Louis.....	San Antonio.
Boucher, Thomas Carl.....	Jewett.
Caldwell, Joe Bailey.....	Claude.
Carroll, Andrew Jesse.....	Center.
Chambless, Frank Marion.....	Normangee.
Clark, Allen Bailey.....	Houston.
Currie, Chester Coleman.....	Rainbow.
Denham, Stephen Edward.....	Forestburg.
Dimmitt, Frank W., Jr.....	Yoakum.
Dimmitt, James Sterling.....	Yoakum.
Durham, Thomas Granville.....	Milford.
Etie, Arthur Emanuel.....	Houston.
Fawcett, Ralph Branson.....	Cheapside.
Goolsby, John Carl.....	Crockett.
Griffin, Eugene.....	Bremond.
Halsey, John Wesley.....	Rogers.
Handley, Lee Oliver.....	Garland.
Hervey, Alonzo Gardner.....	Kerens.
Hoerster, Samuel August.....	Plehweville.
Hurt, John Clifford.....	Big Spring.
Johnson, Homer Bennett.....	Hico.
Jones, William Ira.....	Audrey.
Kuykendall, Emmett Slator.....	Llano.
Lang, Mrs. E. Genevieve Costalin.....	Galveston.
Loeffler, Alvin.....	Mason.
McKee, William J.....	Joshua.
Loper, Berry.....	Mabank.
Marquat, William Carl John.....	LaGrange.
Mercier, Louis Desire.....	Houston.

Metzradt, Karl von.....	San Antonio.
Millasich, Rachel Mary.....	Galveston.
Mosely, Thomas Quitman.....	Ennis.
Pearce, Francis Marion.....	Ballinger.
Powell, William Forrest.....	Marquez.
Ratliff, Frank Allen.....	Ganado.
Scott, Frank Duncan.....	Franklin.
Scott, John Mitchell.....	Franklin.
Skinner, Larkin Peyton.....	Athens.
Sorrels, Frederick Clarence.....	San Antonio.
Stachowiak, Louis.....	Bremond.
Stem, Roy Denton.....	Joshua.
Stone, Hugh Bailey.....	Houston.
Stone, James Neville.....	Gonzales.
Taylor, John Franklin.....	Farmersville.
Terrell, Charles.....	Baird.
White, Jesse Edwin.....	Falfurrias.
Williams, Lee Gentry.....	Conroe.
Woody, Willie Prible.....	Goldthwaite.
Wright, James Clifton.....	Henrietta.

## Seniors

Cone, Regnor.....	Llano.
Grant, Gaston Thomas.....	Franklin.
Griffin, Ben Harris.....	Henderson.
Latimer, Arthur James.....	Houston.
McDaniel, Ely Terry.....	Seguin.
Miller, Murray Woodward.....	Houston.
Oates, Oscar Eugene.....	Haskell.
Phillips, Earl Cleveland.....	Big Spring.
Randal, Thomas Eugene.....	Memphis.
Sams, Hamilton Hillyer.....	Taylor.
Slator, Paul.....	Llano.

## SCHOOL OF NURSING

## Seniors

Green, Helen.....	Bay City.
Johnson, Mrs. Vashti.....	New Orleans, La.
Knight, Nellie.....	Galveston.
LaRue, George.....	Austin.
Monroe, Edna.....	San Antonio.
Turner, Mrs. M. E.....	Franklin.
Phillips, Nellie.....	Big Spring.

## Intermediates

Bursey, Lottie May.....	Fort Worth.
Dodson, Alva.....	Brownsville.
Ferguson, Lottie Moore.....	Gainesville.
Horne, Mrs. Allie.....	Minden, La.
Knebel, Matilda Maria.....	Waco.
McLoud, Clara.....	Kingsville.
Reinhart, Ada.....	Decatur, Ill.
Wann, Murl.....	Albuquerque, N. M.
Whaley, Josephine.....	Abilene.
Zahn, Mrs. J. H.....	Waco.

## Juniors

Anderson, Ella E.....	Galveston.
Chandler, Kate.....	Port Arthur.
Cheatham, Ella.....	Clarksville.
Coleman, Tchula.....	Cotulla.
Erck, Emilie.....	Maxwell.
Frame, Ruby.....	Olivia.
Hawkins, Hattie.....	Jacksonville.
Hawkins, Sybil.....	Jacksonville.
Holmes, Mrs. S. E.....	Asheville, N. C.
Johnson, Dessie.....	Blessing.
Kraitcher, Ella.....	Caldwell.
McCaleb, Willie.....	Austin.
Mork, Hilma.....	Kingsville.
Neubauer, Bertha.....	Alvin.
Parten, Mollie.....	Houston.
Riley, Willie.....	Corsicana.
Sedgwick, Cecil.....	Galveston.
Swenson, Ellen.....	Olivia.

## SUMMARY OF STUDENTS

## SCHOOL OF MEDICINE:

Seniors	43
Juniors	23
Sophomores	31
Freshmen	56
	153

## SCHOOL OF PHARMACY:

Seniors	11
Juniors	51
	62

## SCHOOL OF NURSING:

Seniors	7
Intermediates	10
Juniors	18
	35

Individual students in the Department of Medicine..... 250

## ATTENDANCE BY YEARS

1883-84	221	1898-99	986
1884-85	202	1899-00	1,041
1885-86	199	1900-01	1,121
1886-87	245	1901-02	1,291
1887-88	250	1902-03	1,348
1888-89	278	1903-04	1,353
1889-90	309	1904-05	1,486
1890-91	283	1905-06	1,991
1891-92	388	1906-07	2,273
1892-93	353	1907-08	2,462
1893-94	482	1908-09	2,573
1894-05	630	1909-10	2,701
1895-96	730	1910-11	2,758
1896-97	751	1911-12	2,832
1897-98	800	1912-13	3,334

Beginning with 1910-1911, the figures are for individual students.

## AFFILIATED SCHOOLS

### Regulations Governing Affiliation

The regents and the faculty desire to bring the University into such close relationship with the high schools of the state that students may be able to pass from the latter to the former without perceptible break in the course of study. The privilege of affiliation, by which graduates of the high schools can enter the University without examination, is offered on the following conditions:

1. When the authorities of any school desire affiliation with the University, they shall make formal application to the visitor of schools. Memoranda blanks will be furnished to the superintendent or the principal of the school seeking affiliation. Upon these blanks may be indicated the courses of study in the different branches, the number of teachers and their qualifications, and such information in regard to the apparatus, appliances, etc., as may serve to give a fair idea of the general efficiency of the school.
2. If this information be satisfactory, the authorities of the school may be asked to submit specimen examination papers prepared by students pursuing the high school subjects in which affiliation may be desired.
3. No school will be affiliated before the visitor of schools, or some person designated by him, shall have visited it, and shall have rendered a report concerning its equipment and work.
4. If the council on affiliation shall be satisfied that the school should be affiliated, the authorities will be duly notified, and the name of the school will be entered, in the proper group, on the list of affiliated schools. The list will be published in the catalogue of the University.
5. To be affiliated at all, a school must prepare its graduatee for the freshman class in English (three units), history (two units), and mathematics (algebra and plane geometry), two and a half units, in all seven and a half units. Affiliation sufficient to enable graduates to enter without conditions implies enough other units to make fourteen, including three units in one foreign language, ancient or modern, or two units in each of two foreign languages other than Latin. Affiliation sufficient to enable graduates to enter the University conditionally includes enough other units to make twelve.

6. Affiliation may be secured in the following subjects and units:

*Prescribed*

English, 3.

History, 2, chosen from the following:

Ancient History, 1.

Medieval and Modern History, 1.

English History, 1.

American History, 1.

Mathematics:

Algebra,  $1\frac{1}{2}$ .

Plane Geometry, 1.

\*One foreign language, ancient or modern, 3, or

Two foreign languages other than Latin, 2 each.

*Elective*

English 1.

History and Civics (not more than four units, including the two prescribed units, may be presented by the same graduate):

Ancient History, 1.

Medieval and Modern History, 1.

English History, 1.

American History,  $\frac{1}{2}$  or 1.

Civics,  $\frac{1}{2}$ .

Mathematics:

Solid Geometry,  $\frac{1}{2}$ .

Trigonometry,  $\frac{1}{2}$ .

Foreign Languages:

Latin, 3 or 4.

Greek, 2 or 3.

German, 2 or 3.

French, 2 or 3.

Spanish, 2 or 3.

Natural Sciences:

Physiography,  $\frac{1}{2}$ .

Physiology and Hygiene,  $\frac{1}{2}$ .

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\*Affiliation in a foreign language is strongly advised, but will not be enforced until further notice is given.

Physics, 1.  
Chemistry, 1.  
Botany, 1.  
Zoology, 1.

Vocational Subjects (not more than two units may be presented by the same graduate):

Agriculture,  $\frac{1}{2}$  or 1.  
Bookkeeping,  $\frac{1}{2}$ .  
Domestic Economy, 1 or 2.  
Drawing,  $\frac{1}{2}$  or 1.  
Manual Training,  $\frac{1}{2}$  or 1.  
Stenography and Typewriting, 1.

### Concerning Admission Requirements

1. For full admission to the College of Arts and the Engineering Department, fourteen units are required. Until the high schools of the state are somewhat better developed, and until further notice is given, students may be admitted with a condition of two units; but such condition must be removed within two years after admission.

2. While all students are urged to present at least three units in some foreign language, the foreign language requirement, as contemplated, will not be enforced until further notice is given. The postponement of the enforcement of the foreign language requirement is made in deference to requests from affiliated high schools, and in order to give the schools more time for the development of their foreign language courses. Students who do not satisfy the foreign language requirement on admission must, however, do so within two years thereafter.

3. Applicants for admission to the University who are graduates of affiliated schools, will be credited with the subjects in which the schools are affiliated and which have been completed, and will be required to pass examinations in such subjects, if any, as may be required to make at least twelve units.

### Division of Affiliated Schools into Groups

Affiliated schools are divided into three groups:

1. The first group includes schools affiliated in at least fourteen units.

2. The second group includes schools affiliated in at least eleven units. Graduates from schools of this group must present eleven units or lose the advantage of affiliation.
3. The third group includes schools affiliated in at least seven and a half units. The affiliation of a school admitted into the third group may continue for a period of three years, and, if at the expiration of that time the school has not secured sufficient additional units to raise it to the second group, it may continue in the third group for three years more by passing through the steps required for original affiliation.

## LIST OF AFFILIATED SCHOOLS\*

Revised to February 1, 1913.

### Abbreviations

E.....	English.	S.....	Spanish.
A. H.....	Ancient History.	B.....	Botany.
M. H.....	Medieval and Modern History.	C.....	Chemistry.
E. H.....	English History.	P.....	Physics.
Am. H....	American History.	Ph.....	Physiography.
Civ.....	Civics.	P. and H..	Physiology and Hygiene.
M.....	Mathematics (Algebra and Plane Geometry).	Z.....	Zoology.
S. G.....	Solid Geometry.	A.....	Agriculture.
T.....	Trigonometry.	B'k'g.....	Bookkeeping.
L.....	Latin.	D.....	Drawing.
Gk.....	Greek.	D. E.....	Domestic Economy.
Ger.....	German.	M. T.....	Manual Training.
F.....	French.	S. T.....	Stenography and Typewriting.

These abbreviations represent the minimum number of units allowed in the several subjects, *e. g.*, E=English, 3 units; figures, in parenthesis, follow abbreviations when schools have more than the minimum number of units in any subject, *e. g.*, S. (3)=Spanish, 3 units.

### GROUP I

Schools in this group are affiliated in at least fourteen units.

Abilene High School, Abilene: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., Ger.—B., C., P., Ph., P. and H. *Superintendent*, J. H. BURNET, B. A.; *Principal*, R. A. SMITH, M. A.

\*A large percentage of the changes in affiliation are made after the catalogue goes to press. The changes for the year are embodied in a separate bulletin issued in June. The Visitor of Schools will send a copy on request.

- Academy of Our Lady of the Lake, San Antonio: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L., Ger. (3)—C., P., Ph., P. and H. *Superintendent*, Fr. H. J. CONSTANTINEAU, O. M. I.
- Allen Academy, Bryan: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G., T.—L., Ger. *Principals*, J. H. ALLEN, R. O. ALLEN.
- Alice High School, Alice: E.—A. H., M. H., E. H., Am. H., Civ.—M.—L., S. (3)—P., Ph. *Superintendent*, W. C. OGIER; *Principal*, J. E. EVANS.
- Amarillo High School, Amarillo: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L., Ger. (3), S. (3)—P., C., B., Ph., A. *Superintendent*, S. M. BYRD, Ph. B.; *Principal*, I. W. STILWELL, B. A.
- Austin High School, Austin: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L. (4), Ger. (3), S. (3)—B., C., P., Ph., P. and H., Z.—M. T. (1), D. (1), D. E. (2)—B'k'g. *Superintendent*, A. N. McCALLUM, B. A.; *Principal*, J. E. PEARCE, M. A.
- Austin Academy, Austin: E.—A. H., M. H., E. H., Am. H. (1), Civ.—M., S. G., T.—L., Ger. (3), S. (3)—Ph. *Principal*, Wm. S. RIX.
- Ball High School, Galveston: E.—A. H., M. H., Am. H. (1)—M., T.—L., Gk. (3), F. (3), Ger. (3), S. (3)—C., P., Ph. *Superintendent*, JOHN W. HOPKINS, M. A.; *Principal*, W. A. JAMES, M. A.
- Ballinger High School, Ballinger: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L.—P., Ph., P. and H. *Superintendent*, W. S. FLEMING, B. A.; *Principal*, D. W. MOODY.
- Beaumont High School, Beaumont: E. (4)—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L. (4), Ger. (3), F. (3), S. (3)—B., C., P., Ph., P. and H.—M. T. (1). *Superintendent*, H. F. TRIPPLETT, B. A., M. S.; *Principal*, J. G. FUQUA, B. A.
- Belton High School, Belton: E. (4)—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., S. (3)—B., P., Ph. *Superintendent*, L. H. HUBBARD, B. LIT.; *Principal*, B. F. KEITH, Ph. B.
- Big Spring High School, Big Spring: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P., Ph., P. and H. *Superintendent*, J. W. DEES; *Principal*, J. S. WEAVER.
- Blinn Memorial College, Brenham: E.—A. H., M. H., Am. H. (1), Civ.—M. T.—Ger. (3)—C., P., Ph., P. and H.—B'k'g. *President*, J. L. NEU, B. A.

- Bonham High School, Bonham: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L. (4), Ger. (3)—B., C., P., Ph., P. and H., Z. *Superintendent*, I. W. EVANS; *Principal*, H. D. FILLERS, B. A.
- Bowie High School, Bowie: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L. (4)—P., Ph., P. and H. *Superintendent*, A. B. WEISNER, B. A.; *Principal*, H. C. BISHOP, B. A.
- Brenham High School, Brenham: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L., Ger. (3)—P. *Superintendent*, W. D. NOTLEY.
- Britton's Training School, Cisco: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G., T.—L. (4)—C., P., Ph. *President*, O. C. BRITTON.
- Brownwood High School, Brownwood: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L. (4), G.—C., P., B., Ph., P. and H.—M. T. (1), D. E. (2). *Superintendent*, THOMAS H. HAERT, B. A.; *Principal*, C. H. HUFFORD.
- Bryan High School, Bryan: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G.—L.—M. T. (1). *Superintendent*, W. C. LAWSON, B. A.; *Principal*, A. B. KINNARD, B. A.
- Caldwell High School, Caldwell: E.—A. H., M. H., Am. H., Civ.—M., T.—L., Ger. (3)—P., P. and H. *Superintendent*, J. M. SMITH; *Principal*, A. R. STEPHENS.
- Calvert High School, Calvert: E.—A. H., M. H., E. H.—M., S. G., T.—L.—C., P. *Superintendent*, I. N. STEPHENS, LL. B.; *Principal*, MISS GLENNIE WILSON, B. LIT.
- Cameron High School, Cameron: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., Ger. (3)—C., P., Ph., P. and H. *Superintendent*, J. E. WATTS, B. A.; *Principal*, W. T. POLLARD.
- Cisco High School, Cisco: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L., S.—P., C. *Superintendent*, J. N. JOHNSTON; *Principal*, E. E. McCOLLUM.
- Cleburne High School, Cleburne: E. (4)—A. H., M. H., E. H., Am. H. (1)—M., S. G., T.—L.—B., C., P., Ph., P. and H. *Superintendent*, R. G. HALL, B. A.; *Principal*, EMMETT BROWN, B. A.
- Coleman High School, Coleman: E.—A. H., M. H., E. H., Am. H., Civ.—M., T.—L.—C., P. *Superintendent*, J. E. HICKMAN; *Principal*, A. T. STANSELL.

Colorado High School, Colorado: E.—A. H., M. H., Civ.—M.—L.—Ger.—P. *Superintendent*, W. W. HART; *Principal*, MISS NANIE ELLIS.

Comanche High School, Comanche: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—C., P., Ph., P. and H. *Superintendent*, R. F. HOLLOWAY, B. S.; *Principal*, J. B. LAYNE.

Coronal Institute, San Marcos: E. (4)—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L., Ger., S.—P., C. *President*, THE REV. STERLING FISHER.

Corsicana High School, Corsicana: E.—A. H., M. H., E. H., Am. H. (1), Civ.—M., S. G., T.—L. (4), Ger. (3), F.—C., P., Ph., P. and H.—D. E. *Superintendent*, J. E. BLAIR, B. A.; *Principal*, S. H. WHITLEY, B. S.

Corpus Christi High School, Corpus Christi: E.—A. H., M. H., E. H.—M., S. G., T.—L., S. (3)—C., P., P. and H. *Superintendent*, C. W. CROSSLEY; *Principal*, M. MENGER.

Crockett High School, Crockett: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P., Ph., P. and H. *Superintendent*, DONALD McDONALD, M. A.; *Principal*, J. L. DICKSON, B. A.

Dalhart High School, Dalhart: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L. (4), F.—P. *Superintendent*, G. R. KELLEY, B. A.; *Principal*, ETHEL FARWELL

Dallas High School, Dallas: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L., Ger., F., S.—B., C., P., Ph., Z.—D. (1), M. T. (1), D. E. (2). *Superintendent*, JAMES A. BROOKS; *Principal*, JOSEPH MORGAN, B. A.

Del Rio High School, Del Rio: E.—A. H., M. H., Civ.—M., S. G.—L., S.—P. *Superintendent*, W. F. JOURDAN; *Principal*, WALTER GRAY, B. A.

Denison High School, Denison: E.—A. H., M. H., Am. H. (1)—M., S. G., T.—L., Ger. (3), F.—B., C., P., Ph. *Superintendent*, F. B. HUGHES, B. S.; *Principal*, B. McDANIEL.

Denton High School, Denton: E. (4)—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L. (4)—B., C., P., Ph., P. and H.—D. E. (1). *Superintendent*, J. W. BEATY; *Principal*, A. LOGAN, M. A.

El Paso High School, El Paso: E. (4)—A. H., M. H., E. H., Am. H. (1)—M., S. G., T.—L. (4), S. (3), F.—C., P., Ph., P. and H.—M. T. (1), D. (1), D. E., S. T., B'k'g. *Superintendent*, NORMAN R. CROZIER, B. A.; *Principal*, S. W. ALEXANDER, B. A.

Ennis High School, Ennis: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L., Ger. (3)—C., P., B., Ph. *Superintendent*, J. D. COGHLAN; *Principal*, W. O. SMITH, B. S.

Fort Worth High School, Fort Worth: E. (4)—A. H., M. H., Am. H., Civ.—M., S. G., T.—L., Ger., S.—C., P.—D., M. T. *Superintendent*, J. W. CANTWELL, M. A.; *Principal*, R. L. PASCHAL, B. A.

Gainesville High School, Gainesville: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., Ger., S.—C., P., Ph., P. and H. *Superintendent*, J. P. GLASGOW, M. A.; *Principal*, C. E. McDONALD, B. A.

Garland High School, Garland: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—C., P., Ph. *Superintendent*, S. M. LLOYD, B. A.; *Principal*, C. L. WARD, B. S.

Georgetown High School, Georgetown: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L., S.—P. *Superintendent*, JOHN W. CLARK; *Principal*, THOS. E. LEE, B. A.

Giddings High School, Giddings: E.—A. H., M. H., Am. H. (1), Civ.—M.—L., Ger. (3). *Superintendent*, J. T. ALEXANDER; *Principal*, R. G. TODD, B. A.

Greenville High School, Greenville: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L., Ger.—C., P., B., Ph., P. and H., Z. *Superintendent*, L. C. GEE, M. A.; *Principal*, H. O. McCAIN, B. S.

Henderson High School, Henderson: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L.—C., P. *Superintendent*, P. B. BITTLE, B. S.; *Principal*, MISS V. CLEAVES.

Henrietta High School, Henrietta: E.—A. H., M. H., E. H., Am. H.—M., S. G.—L., Ger. (3)—P. *Superintendent*, MISS MARY HANAGAN.

Hico High School, Hico: E.—A. H., M. H., E. H., Am. H. (1), Civ.—M., S. G.—L.—C., P. *Superintendent*, P. B. PETERSON; *Principal*, T. A. TUNNELL, B. A.

Hillsboro High School, Hillsboro: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., Ger. (3)—C., P., Ph., P. and H. *Superintendent*, T D. BROOKS, B. A.; *Principal*, W. T. LOFLAND, B. S.

Honey Grove High School, Honey Grove: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.; T.—L., Ger.—C., P. *Superintendent*, W. L. WILLIS; *Principal*, L. F. CONNELL.

Houston High School, Houston: E. (4)—A. H., M. H., Am. H.—M., S. G.—L. (4), Ger. (3), S. (3)—B., C., P., Ph., P. and H.—D., M. T., D. E. (2). *Superintendent*, P. W. HORN, M. A.; *Principal*, W. C. SMILEY, B. A.

Houston Heights High School, Houston: E.—A. H., M. H., E. H., Am. H., Civ.—M.—L., Ger. (3)—P., Ph., P. and H.—B'k'g. *Superintendent*, L. W. GREATHOUSE, B. S.; *Principal*, TOM BLACKSTONE.

Hubbard High School, Hubbard: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P., Ph., P. and H. *Superintendent*, M. S. GARDNER, B. A.; *Principal*, C. P. BALCH, B. A.

Itasca High School, Itasca: E.—A. H., M. H., E. H.—M., S. G., T.—L.—P., Ph. *Superintendent*, G. L. MARSHALL, B. A.; *Principal*, C. B. MCCARTER.

John C. French High School, Cuero: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—Ger. (3)—P., Ph., P. and H.—D., M. T. *Superintendent*, A. S. BUSH, B. S.; *Principal*, C. S. SMITH, B. S.

Kelley School, Austin: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G.—L., Ger., S.—Ph. *Principal*, MISS M. E. KELLEY.

Kenilworth Hall, Austin: E.—A. H., M. H., E. H., Am. H. (1)—M.—L., Ger.—B., Ph. *Principal*, MISS LILLIAN WEBB.

La Grange High School, La Grange: E.—A. H., M. H., E. H., Am. H., Civ.—M.—L., Ger. (3)—P., Ph., P. and H. *Superintendent*, W. J. KIRK; *Principal*, SIDDIE ROBSON.

Lampasas High School, Lampasas: E.—A. H., M. H., E. H., Am. H., Civ.—M.—L.—P., Ph. *Superintendent*, G. D. SCOTT; *Principal*, W. W. BATTLE, M. A.

Llano High School, Llano: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L., Ger.—P., Ph. *Superintendent*, J. G. TOLAND, B. S.; *Principal*, H. W. KORGES.

Lockhart High School, Lockhart: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., S.—C., P., Ph. *Superintendent*, CUTHBERT SPENCER, B. S.; *Principal*, J. A. BARNES.

Longview High School, Longview: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P., Ph., P. and H. *Superintendent*, S. J. BLOCKER, C. E., M. A.; *Principal*, L. W. MORTON.

Mansfield High School, Mansfield: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—C., P. *Superintendent*, V. A. BYRD.

- Marlin High School, Marlin: E. (4)—A. H., M. H., E. H., Am. H. (1)—M., S. G., T.—L. (4), Ger. (3)—P., C., B., Z., Ph., P. and H., A. (1)—D., M. T., D. E. (2). *Superintendent*, W. F. DOUGHTY, B. A.; *Principal*, A. C. FERGUSON, M. A.
- Marshall High School, Marshall: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L., Ger.—C., P., Ph., P. and H. *Superintendent*, B. B. COBB, B. A.; *Principal*, J. S. BULLINGTON.
- Marshall Training School, San Antonio: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., Ger. (3), S. (3). *Principals*, W. J. MOYES, B. A., and J. T. CURRY, B. A.
- McGregor High School, McGregor: E.—A. H., M. H., E. H., Am. H., Civ.—M.—L., Ger.—P., Ph.—B'k'g. *Superintendent*, H. P. WALKER, B. S.; *Principal*, O. N. LACKEY, M. A.
- McKinney High School, McKinney: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L., Ger.—P., C., Ph., P. and H. *Superintendent*, J. H. HILL; *Principal*, F. G. JONES, B. A.
- Mexia High School, Mexia: E.—A. H., M. H., Am. H. (1)—M., S. G., T.—L., Ger.—C., P. *Superintendent*, E. B. STOVER, B. A.; *Principal*, A. G. KOENIG, B. A.
- Midland High School, Midland: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L.—P., Ph., P. and H. *Superintendent*, W. W. LACKEY; *Principal*, J. E. NELSON, B. A.
- Mineral Wells High School, Mineral Wells: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G., T.—L. (4), Ger.—P., Ph., P. and H. *Superintendent*, E. O. MCNEW; *Principal*, B. M. DINSMORE, B. A.
- Mineola High School, Mineola: E.—A. H., M. H., Am. H.—M., S. G., T.—L. (4), Gk. (3). *Superintendent*, P. E. WALLACE, B. A.; *Principal*, L. W. ROGERS, B. A.
- Nacogdoches High School, Nacogdoches: E.—A. H., M. H., E. H., Am. H., Civ.—M.—L., Ger. (3)—P., C., Ph. *Superintendent*, R. F. DAVIS; *Principal*, M. L. CALDWELL, B. A.
- Navasota High School, Navasota: E.—A. H., M. H., E. H., Am. H.—M., S. G.—L., Ger.—C., P., Ph. *Superintendent*, J. THOMAS DAVIS; *Principal*, L. S., BARRETT, B. L.
- North Fort Worth High School, North Fort Worth: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L., Ger.—C., P. *Superintendent*, J. W. CANTWELL, M. A.; *Principal*, M. H. MOORE.
- Orange High School, Orange: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L., Ger.—C., P., P. and H. *Superintendent*, J. E. BINKLEY, B. A.; *Principal*, MISS HELEN CARR.

- Palestine High School, Palestine: E.—A. H., M. H., Am. H. (1)—M., S. G.—L., Ger. (3)—P., Ph., P. and H. *Superintendent*, WALKER KING, B. A.; *Principal*, R. C. T. JACOBS.
- Paris High School, Paris: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L., Ger. (3), S.—C., P., Ph. *Superintendent*, J. G. WOOTEN; *Principal*, J. P. DOWNER, B. A.
- Plano High School, Plano: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P., P. and H., Z. *Superintendent*, C. F. WALKER, B. S.; *Principal*, W. A. RIALL, B. A.
- Port Arthur High School, Port Arthur: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L.—B., C., P., Ph., P. and H. *Superintendent*, J. H. BRIGHT, B. A.; *Principal*, E. W. BARTHOLOMAE, B. A.
- Quanah High School, Quanah: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., S.—P. *Superintendent*, J. W. O'BANION.
- St. Mary's Academy, Austin: E.—A. H., M. H., Civ.—M., S. G.—Ger. (3), L.—C., P. *Superintendent*, SISTER M. SICILY.
- San Angelo High School, San Angelo: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G.—L. (4), S. (3)—C., P., Ph., P. and H. *Superintendent*, F. E. SMITH, M. S.; *Principal*, H. O. JONES, B. S.
- San Antonio High School, San Antonio: E. (4)—A. H., M. H., Am. H., Civ.—M., S. G., T.—L., Ger. (3), S. (3)—B., C., P., Ph., P. and H.—D., M. T. *Superintendent*, CHARLES H. LUKIN; *Principal*, W. D. WILLIAMS, B. S.
- San Antonio Academy, San Antonio: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L., Ger., S.—P. *Principal*, W. W. BONDURANT.
- San Marcos High School, San Marcos: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., S.—C., P., Ph., P. and H. *Superintendent*, G. M. SIMS, B. A.; *Principal*, ED M. DAY.
- San Marcos Baptist Academy, San Marcos: E.—A. H., M. H., E. H., Civ.—M., S. G., T.—L., Ger., S.—P. *President*, T. G. HARRIS.
- Seguin High School, Seguin: E.—A. H., M. H., Am. H. (1)—M.—L., Ger. (3). *Superintendent*, R. E. L. ADAMS, Ph. B.; *Principal*, J. F. SAEGERT, B. A.
- Sherman High School, Sherman: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L. (4), Ger.—B., C., P., Ph., P. and H.—D., M. T., D. E. (2). *Superintendent*, J. C. PYLE, B. LIT.; *Principal*, W. B. GIBSON.

- Smithville High School, Smithville: E.—A. H., M. H., Am. H. (1), Civ.—M.—L.—P., Ph., A. *Superintendent*, J. N. BIGBEE, B. A.; *Principal*, H. L. B. SKINNER, B. A.
- Stamford High School, Stamford: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G.—L.—P. *Superintendent*, J. P. COMER, B. A.; *Principal*, H. H. GENCE, B. A.
- Sulphur Springs High School, Sulphur Springs: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—C., P. *Superintendent*, F. V. GARRISON, B. S.; *Principal*, E. A. HAYNIE, B. S.
- Sweetwater High School, Sweetwater: E.—A. H., M. H., E. H., Am. H.—M., S. G.—L., S. (3)—P., Ph. *Superintendent*, M. B. JOHNSON; *Principal*, L. E. KING, B. A.
- Taylor High School, Taylor: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L., Ger. (3)—P., Ph.—D., M. T. *Superintendent*, JOHN F. O'SHEA; *Principal*, J. H. HEAD, B. A.
- Temple High School, Temple: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L. (4), Ger. (3)—C., P., Ph.—S. T. *Superintendent*, J. F. KIMBALL, M. A.; *Principal*, W. W. CLEMENT, B. A.
- Terrell High School, Terrell: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L., Ger.—P., Ph. *Superintendent*, S. M. N. MARBS, B. S.; *Principal*, B. E. SATTERFIELD, B. A.
- The Terrill School, Dallas: E. (4)—A. H., Am. H. (1)—M., S. G., T.—L., Ger., F.—C., P. *Principal*, M. B. TERRILL, M. A.
- Texarkana High School, Texarkana: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G.—L.—P. *Superintendent*, O. L. DUNAWAY, B. A.; *Principal*, J. H., McCULLY.
- Thomas Arnold High School, Salado: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L. (4), Gk.—P. and H. *Principal*, S. J. JONES, PH. D.
- Tyler High School, Tyler: E.—A. H., M. H., Am. H. (1)—M., S. G., T.—L., Ger.—C., P., Ph., P. and H. *Superintendent*, W. T. ADAMS; *Principal*, S. E. GIDEON.
- University Preparatory School, Austin: E.—A. H., M. H., Am. H. (1)—M., S. G., T.—L. (4), Ger. (3), F., S.—Ph. *Principal*, MISS LILLIAN CARRINGTON, B. LIT.
- Uvalde High School, Uvalde: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L., S. (3)—P.—M. T. (1), D. E. (2). *Superintendent*, A. W. EVANS, B. A.; *Principal*, O. A. GARDNER.

Van Alstyne High School, Van Alstyne: E.—A. H., M. H., E. H., Am. H., Civ.—M.—L.—P., Ph. *Superintendent*, W. F. BARNETT; *Principal*, S. B. SIVELLS.

Victoria High School, Victoria: E.—A. H., M. H., E. H.—M., S. G.—L.—B., C., P., Ph. *Superintendent*, GEO. W. PAGE, PH. D.; *Principal*, MISS ALICE DEAN.

Waco High School, Waco: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L. (4)—C., P., Ph., P. and H.—D., M. T. *Superintendent*, J. C. LATTIMORE, C. E., M. S.; *Principal*, E. T. GENHEIMER, PH. B.

Waxahachie High School, Waxahachie: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L.—C., P., Ph. *Superintendent*, G. B. WINN; *Principal*, P. J. HERNDON.

Weatherford High School, Weatherford: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L. (4), Ger.—C., P. *Superintendent*, T. W. STANLEY; *Principal*, W. O. DEWEES.

West Texas Military Academy, San Antonio: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G., T.—L., Ger., F., S.—C., P. *Principal*, J. F. HOWARD, B. A.

Whitis School, Austin: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L., Ger., F., S.—Ph. *Principal*, MISS MARY WHITIS.

Wichita Falls High School, Wichita Falls: E.—A. H., M. H., E. H., Am. H. (1)—M., S. G.—L. (4)—B., C., P., Ph. *Superintendent*, GEO. H. CARPENTER, PH. B.; *Principal*, J. B. JONES.

Yoakum High School, Yoakum: E.—A. H., M. H., Am. H. (1), Civ.—M., S. G.—L.—P., Ph. *Superintendent*, C. A. PETERSON, B. S.; *Principal*, H. K. WILLIAMS, B. S.

## GROUP II

Schools in this group are affiliated in at least eleven units.

Anson High School, Anson: E.—A. H., M. H., E. H., Am. H. (1)—M.—L. *Superintendent*, J. G. McGEE; *Principal*, R. H. MARRS.

Arlington High School, Arlington: E.—A. H., M. H., Am. H.—M., S. G., T.—L. *Superintendent*, H. TARPLEY; *Principal*, J. A. KOOKEN.

Bastrop High School, Bastrop: E.—A. H., M. H.—M., T.—L. *Superintendent*, W. P. ARNOLD, PH. D.

- Brady High School, Brady: E.—A. H., M. H., Am. H. (1)—M., T.—L.—P. and H. *Superintendent*, W. L. HUGHES; *Principal*, J. O. WALLACE, B. A.
- Burnet High School, Burnet: E.—A. H., M. H., Am. H., Civ.—M.—L. *Superintendent*, M. B. BROWN, B. LIT.; *Principal*, Miss MATTIE DODSON.
- Canyon High School, Canyon: E.—A. H., M. H.—M.—L.—P. *Superintendent*, THOS. J. YOE; *Principal*, MRS. ADA T. WRAY.
- Carlisle Military Academy, Arlington: E.—A. H., M. H., E. H.—M., S. G., T.—Ger. *Principal*, J. M. CARLISLE, B. A., LL. D.
- Clarksville High School, Clarksville: E.—A. H., M. H., Am. H.—M.—L.—P., C. *Superintendent*, R. C. CAMPBELL; *Principal*, R. W. GOODLOE, B. S.
- Dublin High School, Dublin: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L. *Superintendent*, J. W. DUNLAP; *Principal*, O. L. WILKINS, B. A.
- Elgin High School, Elgin: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T.—L. *Superintendent*, T. P. MALLARD; *Principal*, Miss CORA MILLER.
- Floresville High School, Floresville: E.—A. H., M. H., E. H.—M.—L., Ger. *Superintendent*, W. B. TOONE, B. A.; *Principal*, J. A. POSTON.
- Gatesville High School, Gatesville: E.—A. H., M. H., E. H., Am. H., Civ.—M.—L.—P. *Superintendent*, GEORGE W. HARRIS, M. LIT.; *Principal*, W. S. DABNEY, B. A.
- Gonzales High School, Gonzales: E.—A. H., M. H., Civ.—M.—L.—P., PH. *Superintendent*, W. E. TAYLOR, M. S.; *Principal*, I. M. HODGES.
- Haskell High School, Haskell: E.—A. H., M. H., Am. H. (1)—M., S. G.—L. *Superintendent*, R. J. TURRENTINE, M. A.; *Principal*, H. E. BELL, B. A.
- Hereford High School, Hereford: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P., P. and H. *Superintendent*, BEN SHORT; *Principal*, D. A. SHIRLEY.
- Huntsville High School, Huntsville: E.—A. H., M. H.—M.—L.—P., P. and H. *Superintendent*, F. L. MASTERSON, B. A.; *Principal*, C. A. PUCKETT, B. A.
- Kaufman High School, Kaufman: E.—A. H., M. H., Civ.—M.—L.—P. and H.—D., M. T. *Superintendent*, O. P. NORMAN; *Principal*, J. B. CULWELL.

- Ladonia High School, Ladonia: E.—A. H., M. H., Am. H. (1)—M.—L. *Superintendent*, C. G. YARBROUGH; *Principal*, J. C. THOMAS.
- Lancaster High School, Lancaster: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L. *Superintendent*, W. C. CARROLL.
- Laredo High School, Laredo: E.—A. H., M. H., Am. H. (1)—M.—S. (3). *Superintendent*, L. J. CHRISTEN; *Principal*, MISS KATHERINE TARVER.
- Lubbock High School, Lubbock: E.—A. H., Am. H. (1)—M., S. G., T.—L.—P. *Superintendent*, J. K. WESTER; *Principal*, G. N. ATKINSON.
- Marble Falls High School, Marble Falls: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L. *Superintendent*, A. S. J. STEELE.
- Mart High School, Mart: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P. *Superintendent*, W. E. PATTY; *Principal*, D. J. McWILLIAMS, B. A.
- Mulholland School, San Antonio: E.—A. H., M. H.—M.—L., F. (3.) *Principal*, MRS. J. TOM WILLIAMS.
- New Braunfels High School, New Braunfels: E.—A. H., M. H., Am. H., Civ.—M.—Ger. (3)—P. *Superintendent*, B. HOLEKAMP.
- Pilot Point High School, Pilot Point: E.—A. H., M. H., Am. H., Civ.—M.—L.—B., P. *Superintendent*, A. S. KEITH; *Principal*, MISS BLANCHE THOMAS.
- Pittsburg High School, Pittsburg: E.—A. H., M. H., Am. H. (1)—M., S. G.—L. *Superintendent*, C. L. TURNER, M. A.; *Principal*, M. L. CLAYS, B. S.
- Richmond High School, Richmond: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G.—L. *Superintendent*, J. M. PATTON.
- Rockdale High School, Rockdale: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P., P. and H. *Superintendent*, CHARLES E. GREEN; *Principal*, R. L. GROGAN.
- Rosebud High School, Rosebud: E.—A. H., M. H., Am. H., Civ.—M.—L. *Superintendent*, B. F. SISK, M. A.; *Principal*, J. H. ARMITAGE, PH. B.
- San Augustine High School, San Augustine: E.—A. H., M. H., Am. H.—M., S. G.—L. *Superintendent*, W. H. RUSHING, B. L.; *Principal*, E. L. COWDEN.

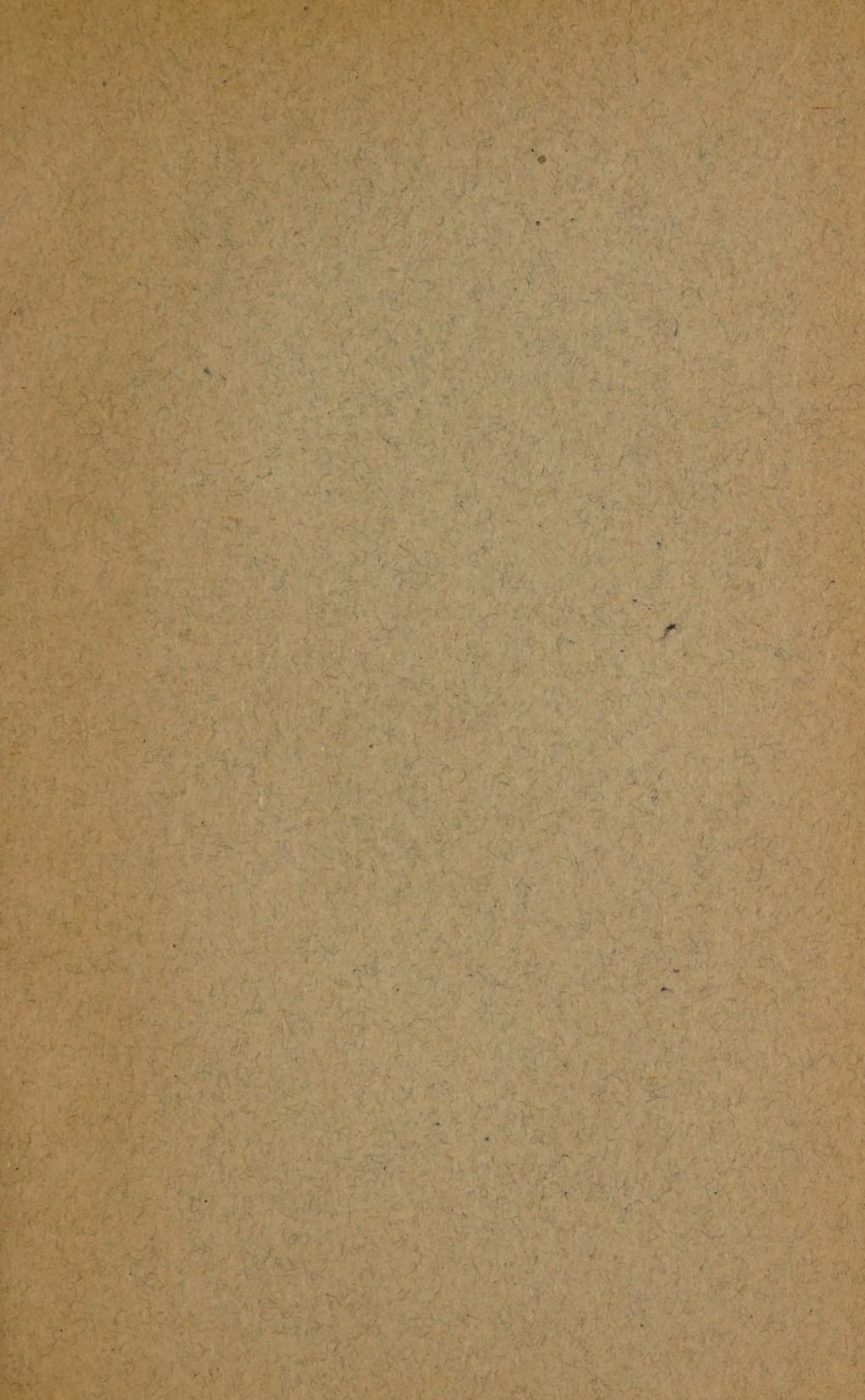
- Seymour High School, Seymour: E.—A. H., M. H., Am. H. (1)—M.—L.—P. *Superintendent*, W. E. EDELEN, B. A.; *Principal*, J. W. PYBURN, B. A.
- Stephenville High School, Stephenville: E.—A. H., M. H., E. H., Civ.—M., S. G.—L. *Superintendent*, HENRY SIMS, M. A.; *Principal*, W. L. SPRADLING, B. A.
- Tivy High School, Kerrville: E.—A. H., M. H.—M.—L.—P. *Superintendent*, ALVIN DILLE, B. A.; *Principal*, E. L. WHITEHEAD, B. A.
- Troup High School, Troup: E.—A. H., M. H., Am. H. (1)—M., S. G., T.—L.—P. *Superintendent*, C. A. LANIER; *Principal*, MISS ELSIE HUNT.
- Vernon High School, Vernon: E.—A. H., M. H., Am. H., Civ.—M., S. G., T.—L.—P. *Superintendent*, B. F. HOLCOMB, B. A.; *Principal*, R. W. DODSON.
- Winnsboro High School, Winnsboro: E.—A. H., M. H., Am. H., Civ.—M.—L.—P., C. *Superintendent*, J. H. SHEPPEARD, B. A.; *Principal*, E. E. MORROW, B. A.
- Wolfe City High School, Wolfe City: E.—A. H., M. H., Am. H., Civ.—M., S. G.—L.—P., P. and H. *Superintendent*, E. F. KING; *Principal*, M. D. FRY, B. A.

### GROUP III

Schools in this group are affiliated in at least seven and one-half units.

- Alpine High School, Alpine: E.—A. H., M. H., Am. H. (1)—M., S. G.; *Superintendent*, H. B. COWLES; *Principal*, B. H. WOODFORD, B. A.
- Barnett School, Houston: E.—A. H., M. H., Am. H. (1)—M. *Principal*, W. W. BARNETT, B. S.
- Center High School, Center: E.—A. H., M. H., E. H., Am. H., Civ.—M., S. G., T. *Superintendent*, M. M. DUPRE, B. S., C. E.; *Principal*, J. M. McGEE.
- Hardin's School for Boys, Dallas: E.—A. H., M. H., Am. H.—M. S. G., T. *Principal*, JOHN A. HARDIN.
- Institute for the Blind, Austin: E.—A. H., M. H.—M. *Superintendent*, E. E. BRAMLETTE.
- Italy High School, Italy: E.—A. H., M. H.—M.—L. *Superintendent*, E. W. RHEY; *Principal*, W. S. ALLEN, B. A.
- State Orphan Home, Corsicana: E.—A. H., M. H.—M. *Superintendent*, W. L. BRINGHURST; *Principal*, MIKE HOWARD.







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